

Appointment

From: Scott, Elizabeth [Scott.Elizabeth@epa.gov]
on behalf of Henry, Tala [Henry.Tala@epa.gov]
Sent: 7/20/2020 4:19:11 PM
To: Passe, Loraine [Passe.Loraine@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]; Tyree, JamesN [tyree.jamesn@epa.gov]; Blaufuss, Hannah [Blaufuss.Hannah@epa.gov]; Fahning, Diana [Fahning.Diana@epa.gov]; Scheifele, Hans [Scheifele.Hans@epa.gov]; Le, Madison [Le.Madison@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Pierce, Alison [Pierce.Alison@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]; Weir, Harlan [weir.harlan@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]
Subject: TSCA section 8(a) PFAS Data Call
Attachments: PFAS rule_AGENDA_7-20-2020.docx; Questions on PFAS Scope_7-20-2020.docx; Tier 3 rule schedule_7.13.20.xlsx; Attach1_DataUsage_7-20-20.docx
Location: Skype Meeting
Start: 7/21/2020 5:00:00 PM
End: 7/21/2020 6:00:00 PM
Show Time As: Tentative

Required Attendees: Passe, Loraine; Lynn Vendinello; Tyree, JamesN; Blaufuss, Hannah; Fahning, Diana; Scheifele, Hans; Madison Le; Schwarz, Stephanie; Schechter, Kathryn
Optional Attendees: Alison Pierce; Ryan Schmit; Weir, Harlan; Butler, Tristan

Per Tala, to move this meeting – Tuesday, July 21st at 1-2.

**Thanks,
Liz**

Purpose: Follow-up from our 6/29 meeting on items including: 1) PFAS definition; 2) data use; 3) small business exemption; and 4) outreach.

**BRIEFING MATERIALS:
Loraine Passe (CCD)
(202) 564-9064**

Join Skype Meeting

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Ex. 6 Personal Privacy (PP)

English (United States)

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Conference ID: Ex. 6 Personal Privacy (PP)

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Message

From: Tyree, JamesN [tyree.jamesn@epa.gov]
Sent: 8/3/2020 12:27:24 PM
To: Blaufuss, Hannah [Blaufuss.Hannah@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Weir, Harlan [weir.harlan@epa.gov]; Fahning, Diana [Fahning.Diana@epa.gov]
Subject: RE: PFAS scope clean up

Hi Hannah,
It looks good. No edits from me.

James

From: Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>
Sent: Friday, July 31, 2020 3:01 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Weir, Harlan <weir.harlan@epa.gov>; Tyree, JamesN <tyree.jamesn@epa.gov>; Fahning, Diana <Fahning.Diana@epa.gov>
Subject: RE: PFAS scope clean up

Hello Kathy,

Yes, I was thinking that Options 2 and 3 would provide an example of each subtype. I have added the list of subtypes to Option 2.

Thank you,

Hannah Blaufuss

Environmental Protection Specialist
U.S. EPA Office of Pollution Prevention and Toxics
Chemical Control Division
Phone: (202) 564-5614

 Please do not print this email unless absolutely necessary 
For information on COVID-19 visit the [CDC](https://www.cdc.gov)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Friday, July 31, 2020 1:42 PM
To: Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>; Weir, Harlan <weir.harlan@epa.gov>; Tyree, JamesN <tyree.jamesn@epa.gov>; Fahning, Diana <Fahning.Diana@epa.gov>
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6) R-PFC-R (R = R = O, N, P, C (not CF2), S, H, halo)

We have substances that have at least one of the 6 subtypes and sometimes have 2 or more of the subtypes. Maybe give an example of each subtype?

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

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Sent: Friday, July 31, 2020 12:18 PM

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Subject: PFAS scope clean up

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Kathy- in decision 1, option 2, I put a comment for you about listing examples of structural categories.

Thank you,

Hannah Blaufuss

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U.S. EPA Office of Pollution Prevention and Toxics
Chemical Control Division
Phone: (202) 564-5614

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Message

From: Blaufuss, Hannah [Blaufuss.Hannah@epa.gov]
Sent: 8/3/2020 7:46:07 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Tyree, JamesN [tyree.jamesn@epa.gov]; Weir, Harlan [weir.harlan@epa.gov]; Fahning, Diana [Fahning.Diana@epa.gov]
Subject: RE: PFAS scope clean up

This looks good. I'll let you know if you have any difficulty incorporating the diagrams in the document.

Thank you,

Hannah Blaufuss

Environmental Protection Specialist
U.S. EPA Office of Pollution Prevention and Toxics
Chemical Control Division
Phone: (202) 564-5614

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From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, August 3, 2020 3:18 PM
To: Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>; Tyree, JamesN <tyree.jamesn@epa.gov>; Weir, Harlan <weir.harlan@epa.gov>; Fahning, Diana <Fahning.Diana@epa.gov>
Subject: RE: PFAS scope clean up

Is this OK? I grouped some together in the images so if you need me to separate anything, let me know.

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Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>
Sent: Monday, August 03, 2020 1:57 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Tyree, JamesN <tyree.jamesn@epa.gov>; Weir, Harlan <weir.harlan@epa.gov>; Fahning, Diana <Fahning.Diana@epa.gov>
Subject: RE: PFAS scope clean up

I like diagrams over written out. I was imagining structural diagrams for the subtype examples.

-Hannah

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, August 3, 2020 1:39 PM
To: Tyree, JamesN <tyree.jamesn@epa.gov>; Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>; Weir, Harlan <weir.harlan@epa.gov>; Fahning, Diana <Fahning.Diana@epa.gov>
Subject: RE: PFAS scope clean up

I can have it later today.

Dr. Kathy Schechter
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1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Tyree, JamesN <tyree.jamesn@epa.gov>

Sent: Monday, August 03, 2020 1:29 PM

To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>; Weir, Harlan <weir.harlan@epa.gov>; Fahning, Diana <Fahning.Diana@epa.gov>

Subject: RE: PFAS scope clean up

Depends on who the audience is.

Kathy- would it be quick/easy to put together the structural diagrams? At the least we could have them as a supplemental doc

James

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Sent: Monday, August 03, 2020 1:23 PM

To: Tyree, JamesN <tyree.jamesn@epa.gov>; Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>; Weir, Harlan <weir.harlan@epa.gov>; Fahning, Diana <Fahning.Diana@epa.gov>

Subject: RE: PFAS scope clean up

Do you think pictures would work better or letter representations (as below)? Also, I tweaked a few of the subcategory information)

- 1) Halo FC (FC = fluoro carbon; and R, R' and/or R'' = halogen)
76-15-3 = Ethane, 1-chloro-1,1,2,2,2-pentafluoro- (CF₃CF₂Cl)
- 2) Fluoro polymer (made from C₂F₄ poly, C₃F₆ poly and/or C₂F₃halo poly)
57570-64-6 = 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene, 1,1,2,2-tetrafluoroethene and 1,1,2-trifluoro-2-(trifluoromethoxy)ethene -(C₂F₂)_n-(C₃F₆)_n-(CF₂CH₂)_n-(C₂CF(OCF₃))_n-
- 3) PF ether/PF ether poly (PF = perfluoro)
13252-13-6 = Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-
(CF₂CF₂CF₂OCF(CF₃)C(=O)OH)
161075-12-3 = Ethene, tetrafluoro-, oxidized, polymd., reduced, Me esters (CH₃OC(=O)(OC₂F₄)_n-(OCF₂)_n-C(=O)OCH₃)
- 4) PFC (PFC = PerFlouroCarbon)
355-25-9 = Butane, 1,1,1,2,2,3,3,4,4,4-decafluoro- (CF₃CF₂CF₂CF₃)
- 5) PFC-R (R = O, N, P, C (not CF₂), S, H, halo, Si)
335-67-1 = Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro- (CF₃(CF₂)₆C(=O)OH)
1763-23-1 = 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro- (CF₃(CF₂)₇SO₃H)
- 6) R-PFC-R (R = O, N, P, C (not CF₂), S, H, halo, Si)
336-08-3 = Hexanedioic acid, 2,2,3,3,4,4,5,5-octafluoro- (HOC(=O)CF₂CF₂CF₂CF₂C(=O)OH)
375-63-3 = Silane, trichloro(1,1,2,2,3,3,4,4-octafluorobutyl)- (H(CF₂)₄-SiCl₃)

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Environmental Protection Specialist
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Message

From: Le, Madison [Le.Madison@epa.gov]
Sent: 11/16/2020 4:51:20 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Fehrenbacher, Cathy [Fehrenbacher.Cathy@epa.gov]; Camacho, Iris [Camacho.Iris@epa.gov]; Scarano, Louis [Scarano.Louis@epa.gov]; Christian, Myrta [Christian.Myrta@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: Press inquiry: PFAS

Perfect. Thanks Tracy.

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Monday, November 16, 2020 11:50 AM
To: Le, Madison <Le.Madison@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Camacho, Iris <Camacho.Iris@epa.gov>; Scarano, Louis <Scarano.Louis@epa.gov>; Christian, Myrta <Christian.Myrta@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Press inquiry: PFAS

Revised...

Ex. 5 Deliberative Process (DP)

From: Le, Madison <Le.Madison@epa.gov>
Sent: Monday, November 16, 2020 11:34 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Camacho, Iris <Camacho.Iris@epa.gov>; Scarano, Louis <Scarano.Louis@epa.gov>; Christian, Myrta <Christian.Myrta@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Press inquiry: PFAS

Tracy,

Ex. 5 Deliberative Process (DP)

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Monday, November 16, 2020 11:13 AM
To: Le, Madison <Le.Madison@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Camacho, Iris <Camacho.Iris@epa.gov>; Scarano, Louis <Scarano.Louis@epa.gov>; Christian, Myrta <Christian.Myrta@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Press inquiry: PFAS

From: Le, Madison <Le.Madison@epa.gov>
Sent: Monday, November 16, 2020 10:58 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Christian, Myrta <Christian.Myrta@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Camacho, Iris <Camacho.Iris@epa.gov>; Scarano, Louis <Scarano.Louis@epa.gov>
Subject: FW: Press inquiry: PFAS
Importance: High

Tracy/Myrta – is the 2pm deadline achievable, or do we need to request an extension? I have meetings from 12:30 to 2pm, and will not be able assist with the review during this time. Please copy Cathy/Iris/Gino, if you need help with review during this time.

Request is to provide:

- 1) confirmation of proposed response, and
- 2) additional explanation on how these chemicals were determined to be PFAS.

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Lalley, Thomas <Lalley.Thomas@epa.gov>
Sent: Monday, November 16, 2020 10:52 AM
To: Le, Madison <Le.Madison@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Blair, Susanna <Blair.Susanna@epa.gov>; Pierce, Alison <Pierce.Alison@epa.gov>; Dunton, Cheryl <Dunton.Cheryl@epa.gov>
Subject: RE: Press inquiry: PFAS

2pm today.

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Cc: Blair, Susanna <Blair.Susanna@epa.gov>; Pierce, Alison <Pierce.Alison@epa.gov>; Dunton, Cheryl <Dunton.Cheryl@epa.gov>

Subject: RE: Press inquiry: PFAS

Tom,

What's the deadline for this response?

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Lalley, Thomas <Lalley.Thomas@epa.gov>

Sent: Monday, November 16, 2020 10:03 AM

To: Williamson, Tracy <Williamson.Tracy@epa.gov>

Cc: Le, Madison <Le.Madison@epa.gov>; Blair, Susanna <Blair.Susanna@epa.gov>; Pierce, Alison <Pierce.Alison@epa.gov>; Dunton, Cheryl <Dunton.Cheryl@epa.gov>

Subject: Press inquiry: PFAS

Hi Tracy – I am a new public affairs officer in OCSP/OPPT. Please see below an inquiry from a reporter and the proposed response. Tala Henry asked to run this by you to make sure that you agree with the response. Also, Tala asked for an explanation of how ICB made the determination that these chemicals are PFAS since OPPT does not consider everything on the ORD Dashboard as PFAS.

INCOMING: Greetings. I am hoping you can tell me which of the chemicals in the Chemical Data Reporting data for 3M's Cottage Grove plant in Minnesota (attachment) are considered chemicals in the PFAS family. Can you tell me?

RESPONSE:

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Tom Lalley
Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
202-997-0899

Message

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Sent: 11/16/2020 4:13:19 PM
To: Le, Madison [Le.Madison@epa.gov]
CC: Fehrenbacher, Cathy [Fehrenbacher.Cathy@epa.gov]; Camacho, Iris [Camacho.Iris@epa.gov]; Scarano, Louis [Scarano.Louis@epa.gov]; Christian, Myrta [Christian.Myrta@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
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RESPONSE: **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

Tom Lalley
Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
202-997-0899

Message

From: Butler, Tristan [Butler.Tristan@epa.gov]
Sent: 12/1/2020 3:22:18 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: PFAS Rule

I am still looking through the document. I will let you know if they say anything more specific. Thanks for your clarifications!

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Tuesday, December 1, 2020 10:20 AM
To: Butler, Tristan <Butler.Tristan@epa.gov>
Cc: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS Rule

Yes, the R include fluorine. This is why we have the structural representation in the latter section. They were supposed to include what R represents – we did in the scope document. Did they forget to include it in this doc?

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Butler, Tristan <Butler.Tristan@epa.gov>
Sent: Tuesday, December 01, 2020 10:17 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: PFAS Rule

Hey Kathy,

Here is the definition of PFAS according to the rule:

“For the purposes of this proposed action, the structural definition of PFAS includes per- and polyfluorinated substances that structurally contain the unit R-(CF₂)-C(F)(R')R''. Both the CF₂ and CF moieties are saturated carbons and none of the R groups (R, R' or R'') can be hydrogen.”

I just wanted to double check that this is correct. Does an “R” group be anything except hydrogen (i.e. including fluorine)? If so, it might be worth stating explicitly and describing the generic structural unit in a sentence or two.

Tristan Butler
Chemist, Industrial Chemistry Branch
1201 Constitution Ave., NW
Washington, DC 20460

Message

From: Tobias, David [Tobias.David@epa.gov]
Sent: 12/15/2020 2:02:35 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: Definition of PFAS in the data call in rule

Defining chemical class is hard.

Ex. 5 Deliberative Process (DP)

David Tobias

Currently on detail in Chemical Risk and Reporting Enforcement Branch/WCED/OCE/OECA

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, December 14, 2020 8:54 AM
To: Tobias, David <Tobias.David@epa.gov>
Subject: RE: Definition of PFAS in the data call in rule

There were a couple of thoughts that went into this decision. Of course, the inclusion of such chemicals is still possible. We asked for comments on this...

Ex. 5 Deliberative Process (DP)

Kathy (your thoughts are always welcome!)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Tobias, David <Tobias.David@epa.gov>
Sent: Friday, December 11, 2020 9:26 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: Definition of PFAS in the data call in rule

Good morning Kathy

“

For the purposes of this proposed action, the structural definition of PFAS includes per- and polyfluorinated substances that structurally contain the unit $R-(CF_2)-C(F)(R')R''$. Both the CF_2 and CF moieties are saturated carbons and none of the R groups (R, R' or R'') can be hydrogen.

“

I was wondering whether $R-[(CF_2)-O]_n-R$ would fall in the data call in rule? It seems like perfluoro ethers like this wouldn't, which surprised me when I thought more about this definition. I think there are chemicals with the CF_2-O repeat group, why wouldn't we want them to be part of the rule?

Thanks

David Tobias

Currently on detail in Chemical Risk and Reporting Enforcement Branch/WCED/OCE/OECA

Message

From: Krasnic, Toni [krasnic.toni@epa.gov]
Sent: 6/25/2019 8:42:49 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: PFAS Definition
Attachments: PFAS - TRI (2019) v3.4-30-2019_DST.xlsx

Hi Kathy,

Thank for the clarification today on the PFAS definition: $\text{CF}_2(\text{R}')\text{-CF}(\text{R}'')(\text{R}''')$ substructure.

In $\text{CF}_2(\text{R}')\text{-CF}(\text{R}'')(\text{R}''')$, how is the "R" defined?

Thanks,

Toni Krasnic
Existing Chemicals Branch
EPA/OCSP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

Message

From: Butler, Tristan [Butler.Tristan@epa.gov]
Sent: 1/13/2021 7:50:35 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: Thoughts on PFAS terminology

Hey Kathy,

Here is a write up of the things we discussed yesterday. Please let me know if I forgot to include anything.

Ex. 5 Deliberative Process (DP)

Tristan Butler, PhD (He/Him)
Chemist, Industrial Chemistry Branch
1201 Constitution Ave., NW
Washington, DC 20460

Message

From: Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]
Sent: 1/26/2021 6:52:19 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: PFAS List on Chemview/OECD PFAS Definition

Thanks, this is helpful. I will check in with Jeff on the Chemview question.

Stephanie Schwarz
EPA Office of General Counsel
Pesticides and Toxic Substances Law Office
T: 202-564-8496
E: schwarz.stephanie@epa.gov

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Tuesday, January 26, 2021 1:11 PM
To: Schwarz, Stephanie <Schwarz.Stephanie@epa.gov>
Subject: RE: PFAS List on Chemview/OECD PFAS Definition

I do not know about chemview. I suggest asking Jeff Santacrose.

As for the OECD document, I just had a few general comments. The document was just to explain the universe of PFAS as a chemical that contains CF₂RR' where the carbon is saturated and R and R' are not H/Br/Cl/I. Our working definition is more specific, but is included within this universe. I did like the comment in the document:

"However, when a working definition of PFASs is used, this report highly recommends that users clearly provide the context and rationale for selecting such a working definition in order to provide transparency and avoid confusion by others."

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Schwarz, Stephanie <Schwarz.Stephanie@epa.gov>
Sent: Tuesday, January 26, 2021 12:15 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: PFAS List on Chemview/OECD PFAS Definition

Hi Kathy,

I was hoping you could help with two PFAS questions/issues that have come up. First, I was wondering how often the PFAS List on Chemview is updated? For example, is there a chance that some substances recently added to Chemview because of a SNUR or another action under the new chemicals program are not yet flagged as a PFAS?

My second question pertains to the OECD document you shared after the 8(a)(7) workgroup meeting. It has reached me through one of our other PTSLO attorneys that works on international issues, and it looks like ORD may have been involved but do you have any concerns with the paper? You mentioned it differs from the definition in the draft

proposed 8(a)(7) rule and I was wondering if there are significant differences or anything that differs dramatically from the explanation in the rule.

Kind regards,

Stephanie

Stephanie Schwarz
EPA Office of General Counsel
Pesticides and Toxic Substances Law Office
T: 202-564-8496
E: schwarz.stephanie@epa.gov

Message

From: Matthews, Lisa [Matthews.Lisa@epa.gov]
Sent: 2/23/2021 2:53:01 PM
To: Lemieux, Paul [Lemieux.Paul@epa.gov]; Linak, Bill [Linak.Bill@epa.gov]; Williams, Antony [Williams.Antony@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Butler, Cheryl [Butler.Cheryl@epa.gov]; Pachon, Carlos [Pachon.Carlos@epa.gov]
CC: Phelps, Lara [Phelps.Lara@epa.gov]; McCabe, Erin [mccabe.erin@epa.gov]
Subject: MPART call materials for Thursday
Attachments: Agenda_MPART Feb 25.docx

Please let [Erin McCabe](#) and me know if you have any background materials or slides to share for Thursday's call with MPART. Thank you!

Lisa Matthews

Senior Advisor and State Liaison
US EPA Office of Research and Development
202-564-6669 (desk) | 202-577-4035 (cell)
matthews.lisa@epa.gov

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EPA ORD-Michigan PFAS Action Response Team (MPART)
Quarterly Call
February 25, 2021
10-11 AM ET

Microsoft Teams meeting

[HYPERLINK "https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDRkNGYyNjktMjlyYy00OGU2LTkzMjYtN2RhNzgwYTg4ZGRj%40thread.v2/0?context=%7b%22Tid%22%3a%2288b378b3-6748-4867-acf9-76aacbeca6a7%22%2c%22Oid%22%3a%22cce48047-c57b-4672-a671-46be8fe94945%22%7d"%20" \t "_blank"]
Phone Conference ID: [Ex. 6 Personal Privacy (PP)]

Draft Agenda (2/19/21)

- 11:00 AM** **Welcome**
Lisa Matthews, EPA Office of Research and Development (ORD)
Steve Sliver, MPART
- 11:05 AM** **Combustion of C1 and C2 PFAS: Kinetic Modeling and Experiments (AWMA IT3 Paper)**
Paul Lemieux, EPA ORD Center for Environmental Solutions and Emergency Response
Bill Linak, EPA ORD Center for environmental Measurement and Modeling
- Also any questions on Other Test Method (OTM) – 45 (EPA-ECOS-ASTHO PFAS Science Call presentation on Feb. 22)**
Lara Phelps and Jeff Ryan, EPA ORD Center for Environmental Measurement and Modeling
- 11:20 AM** **Definition of PFAS**
Antony Williams, EPA ORD Center for Computational Toxicology and Exposure
Kathy Schechter and Tristan Butler, EPA Office of Pollution Prevention and Toxics
- 11:35 AM** **EPA PFAS Destruction and Disposal Guidance**
Carlos Pachon, EPA Office of Land and Emergency Management (invited)
- Next steps, especially the request for additional field testing and implementation of the interim storage option
- 11:50 AM** **Questions/MPART and EPA Updates**
- 12:00 PM** **Adjourn**

Other Test Method 45 – EPA Method for Targeted and Non-Targeted PFAS Measurements

EPA's Office of Research and Development, along with internal and external partners, has made significant contributions to the development and evaluation of sampling and analytical methods for detection of PFAS. Most recently, this included Other Test Method 45 (OTM-45) for the "Measurement of Selected Per- and Polyfluorinated Alkyl Substances from Stationary Sources," which provides users with a non-regulatory method for sampling and analyzing PFAS in air emissions. Sampling and analytical methods are a critical need to measure PFAS emissions from a variety of stationary sources and technologies including chemical manufacturing and industrial use such as coatings, thermal treatment, and emissions controls. OTM-45 provides a best practices method for the targeted measurement of as many as 50 semivolatile, polar PFAS compounds. This method will help other federal agencies, states, tribes, and communities have a consistent way to measure PFAS released into the air. The method is now posted on [[HYPERLINK "https://www.epa.gov/emc/emc-other-test-methods"](https://www.epa.gov/emc/emc-other-test-methods)]. This presentation will provide an overview of the method, its intended use, and future direction.

Definition of PFAS

EPA Office of Research and Development has had conversations with groups across EPA to develop an "encompassing" structural filter definition that we use on the CompTox Chemicals Dashboard to define our "PFAS Master List." There is no single PFAS definition, but rather the chemical class tends to be defined to suit the needs (and concerns) of the various interested parties. EPA's Office of Pollution Prevention and Toxics Industrial Chemistry Branch will speak to the definition of PFAS in the regulatory context.

There is a definition for long-chain perfluoroalkyl carboxylate (LCPFAC) chemicals in the recent TSCA Significant New Use Rule (SNUR):

[[HYPERLINK](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.federalregister.gov%2Fdocuments%2F2020%2F07%2F27%2F2020-13738%2Flong-chain-perfluoroalkyl-carboxylate-and-perfluoroalkyl-sulfonate-chemical-substances-significant&data=04%7C01%7CMatthews.Lisa%40epa.gov%7C2b77705782b74959877b08d8cdfdc70f%7C88b378b367484867acf976aacbeca6a7%7C0%7C0%7C637485837134759294%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IklhaWwiLCJXVCI6Mn0%3D%7C1000&sdata=wqpZRR3vF2oq6A%2FRFzCDXqbzK4GWgNLaudnTTGK2I9c%3D&reserved=0)

"https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.federalregister.gov%2Fdocuments%2F2020%2F07%2F27%2F2020-13738%2Flong-chain-perfluoroalkyl-carboxylate-and-perfluoroalkyl-sulfonate-chemical-substances-significant&data=04%7C01%7CMatthews.Lisa%40epa.gov%7C2b77705782b74959877b08d8cdfdc70f%7C88b378b367484867acf976aacbeca6a7%7C0%7C0%7C637485837134759294%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IklhaWwiLCJXVCI6Mn0%3D%7C1000&sdata=wqpZRR3vF2oq6A%2FRFzCDXqbzK4GWgNLaudnTTGK2I9c%3D&reserved=0"]

Here is the chemical structure definition used:

b) *Chemical substances and significant new uses subject to reporting.* (1) The chemical substances identified in this paragraph, where $5 < n < 21$ or $6 < m < 21$, are subject to reporting under this section for the significant new uses described in paragraph (b)(4)(i) and (b)(4)(iv) of this section.

(i) $\text{CF}_3(\text{CF}_2)_n\text{-COO M}$ where $\text{M} = \text{H}^+$ or any other group where a formal dissociation can be made;

(ii) $\text{CF}_3(\text{CF}_2)_n\text{-CH=CH}_2$;

(iii) $\text{CF}_3(\text{CF}_2)_n\text{-C(=O)-X}$, where X is any chemical moiety;

(iv) $\text{CF}_3(\text{CF}_2)_m\text{-CH}_2\text{-X}$, where X is any chemical moiety; and

(v) $\text{CF}_3(\text{CF}_2)_m\text{-Y-X}$, where Y = non-S, non-N heteroatom and where X is any chemical moiety.

Message

From: Williams, Antony [Williams.Antony@epa.gov]
Sent: 2/23/2021 7:20:22 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Butler, Tristan [Butler.Tristan@epa.gov]
Subject: RE: Questions about next weeks presentation on PFAS

That works for me. I can comment on our approach and that it IS adjustable based on the needs. Please do come along though and offer comments and support as necessary ☺ Thank you!

Antony J. Williams
Center for Computational Toxicology and Exposure
U.S. Environmental Protection Agency
109 T.W. Alexander Drive
Room D131I, Mail Drop D143-02
Research Triangle Park, NC 27711

Office Phone: 919-541-1033
Mobile Phone: Ex. 6 PP / Ex. 7(C)

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Tuesday, February 23, 2021 1:32 PM
To: Williams, Antony <Williams.Antony@epa.gov>
Cc: Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Got more info back from Tracy. She does not feel comfortable with us presenting anything at this time without knowing more about the meeting. Would it be OK for ICB to just attend as observers and answer questions with regards to the working definition?

kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 10:39 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I might circulate these slides after the presentation but will focus on the lists on the day based on the amount of time left over for me to present. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure

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From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 2:01 PM
To: Williams, Antony <Williams.Antony@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Here is what I am thinking – let me know if this is way off on your thoughts. I put this in to Tracy, but have not heard back from her yet. For the amount of time we have, I may just use slides 1-4.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 12:04 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Thanks Kathy...much appreciated. I will send you anything that I might prepare too based on what you send. I was thinking though primarily a live demo of PFAS on the dashboard.. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure
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HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 11:40 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Glad to see we are on the same page. I do not have anything prepared slide wise, but I guess we could put something together. I will see what I can do this afternoon.

kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
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From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 11:36 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Comments below..

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 11:10 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I am not sure!

Ex. 5 Deliberative Process (DP)

Beyond describing what we are using for our working definition of PFAS...

Ex. 5 Deliberative Process (DP)

ICB mostly sees chemicals that are manufacture or imported. Are these recurring meetings that have different discussions as interests arise?

Ex. 5 Deliberative Process (DP)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Friday, February 19, 2021 12:33 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: Questions about next weeks presentation on PFAS

Hi both,

We are scheduled to be on the agenda next week presenting on PFAS to Michigan. I was wondering what you would be presenting on and hpw you think we should split the 15 minutes allocated to us? Thanks

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HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Thursday, February 11, 2021 1:34 PM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>; Pachon, Carlos <Pachon.Carlos@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: draft agenda EPA-MPART Call on Feb 25

Hi All,

Attached is the draft agenda for our quarterly call with the Michigan PFAS Action Response Team on Feb. 25.

Please send [Erin McCabe](#) and me any changes or missing agenda topic descriptions by **COB Tuesday, February 16**.

Thank you for your participation in this call!

Lisa

Lisa Matthews

Senior Advisor and State Liaison
US EPA Office of Research and Development
202-564-6669 (desk) | 202-577-4035 (cell)
matthews.lisa@epa.gov

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Message

From: Williams, Antony [Williams.Antony@epa.gov]
Sent: 2/23/2021 3:39:13 AM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: Questions about next weeks presentation on PFAS
Attachments: PFAS_Michigan.pptx

I might circulate these slides after the presentation but will focus on the lists on the day based on the amount of time left over for me to present. Cheers

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Sent: Thursday, February 11, 2021 1:34 PM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>; Pachon, Carlos <Pachon.Carlos@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: draft agenda EPA-MPART Call on Feb 25

Hi All,

Attached is the draft agenda for our quarterly call with the Michigan PFAS Action Response Team on Feb. 25.

Please send [Erin McCabe](#) and me any changes or missing agenda topic descriptions by **COB Tuesday, February 16**.

Thank you for your participation in this call!

Lisa

Lisa Matthews

Senior Advisor and State Liaison
US EPA Office of Research and Development
202-564-6669 (desk) | 202-577-4035 (cell)
matthews.lisa@epa.gov

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Message

From: Stanley, Darrell [stanley.darrell@epa.gov]
Sent: 3/15/2021 1:17:13 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: PFAS definition

Ok, thanks for checking.

-Darrell

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, March 15, 2021 8:13 AM
To: Stanley, Darrell <stanley.darrell@epa.gov>
Subject: FW: PFAS definition

Hi Darrell. Until we publish our working definition, we should not be sharing. I guess you can tell the submitter that there is a lot of activity with PFAS lately and that we will be publishing this information in the near future.

kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Friday, March 12, 2021 6:09 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: PFAS definition

Tala keeps saying that we have it published in two places

Ex. 5 Deliberative Process (DP)

The def is in the 8(a)(7) rule,

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, February 24, 2021 2:37 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: PFAS definition

Just received an email from Darrell about a submitter wanting to see a published definition of PFAS for EPA. I know that we had discussed this earlier and wanted to know if you had thought of where that might have been.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

Message

From: Williamson, Tracy [Williamson.Tracy@epa.gov]
Sent: 1/8/2020 11:12:44 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Narang, Akshay [narang.akshay@epa.gov]; Christian, Myrta [Christian.Myrta@epa.gov]
Subject: PFAS legislation

No wonder I couldn't find the law. It wasn't the PFAS-specific HR 535 or HR 2577 bills that made their way forward. The text was put in the Defense Appropriations bill that was enacted just before the last CR expired.

<https://www.govinfo.gov/content/pkg/BILLS-116s1790enr/pdf/BILLS-116s1790enr.pdf>

Starting on page 1080 out of 1119...

Subtitle B—PFAS Release Disclosure

SEC. 7321. ADDITIONS TO TOXICS RELEASE INVENTORY.

(a) DEFINITION OF TOXICS RELEASE INVENTORY.—In this section, the term “toxics release inventory” means the list of toxic chemicals subject to the requirements of section 313(c) of the Emergency Planning and Community Right-To-Know Act of 1986 (42 U.S.C. 11023(c)).

(b) IMMEDIATE INCLUSION.— S. 1790—1081

(1) IN GENERAL.—Subject to subsection (e), beginning January 1 of the calendar year following the date of enactment of this Act, the following chemicals shall be deemed to be included in the toxics release inventory:

(A) Perfluorooctanoic acid (commonly referred to as “PFOA”) (Chemical Abstracts Service No. 335–67–1).

(B) The salts associated with the chemical described in subparagraph (A) (Chemical Abstracts Service Nos. 3825–26–1, 335–95–5, and 68141–02–6).

(C) Perfluorooctane sulfonic acid (commonly referred to as “PFOS”) (Chemical Abstracts Service No. 1763–23–1).

(D) The salts associated with the chemical described in subparagraph

(C) (Chemical Abstracts Service Nos. 2795–39–3, 29457–72–5, 56773–42–3, 29081–56–9, and 70225–14–8).

(E) A perfluoroalkyl or polyfluoroalkyl substance or class of perfluoroalkyl or polyfluoroalkyl substances that is— (i) listed as an active chemical substance in the February 2019 update to the inventory under section 8(b)(1) of the Toxic Substances Control Act (15 U.S.C. 2607(b)(1)); and (ii) on the date of enactment of this Act, subject to the provisions of— (I) section 721.9582 of title 40, Code of Federal Regulations; or (II) section 721.10536 of title 40, Code of Federal Regulations.

(F) Hexafluoropropylene oxide dimer acid (commonly referred to as “GenX”) (Chemical Abstracts Service No. 13252–13–6).

(G) The compound associated with the chemical described in subparagraph (F) identified by Chemical Abstracts Service No. 62037–80–3.

(H) Perfluorononanoic acid (commonly referred to as “PFNA”) (Chemical Abstracts Service No. 375–95–1).

(I) Perfluorohexanesulfonic acid (commonly referred to as “PFHxS”) (Chemical Abstracts Service No. 355–46–4).

Message

From: Odusote, Gloria [odusote.gloria@epa.gov]
Sent: 1/28/2020 9:30:47 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Simmons, Nicole (Lindsay) [Simmons.Nicole@epa.gov]
Subject: RE: Per and Poly fluorinated

No problem! Thanks Kathy!

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Tuesday, January 28, 2020 3:29 PM
To: Odusote, Gloria <odusote.gloria@epa.gov>
Cc: Simmons, Nicole (Lindsay) <Simmons.Nicole@epa.gov>
Subject: RE: Per and Poly fluorinated

Sorry I cannot weight in on this. There is no formal definition for this yet.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Odusote, Gloria <odusote.gloria@epa.gov>
Sent: Tuesday, January 28, 2020 11:28 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Simmons, Nicole (Lindsay) <Simmons.Nicole@epa.gov>
Subject: Per and Poly fluorinated

Hi Kathy,
OECA is defining the scope of a subpoena and has used the below definition for PFAS chemicals. My worry is

Ex. 5 Deliberative Process (DP)

Best,
Gloria

Gloria Odusote
Waste and Chemical Enforcement Division
WJC South 1200 Pennsylvania Ave. NW
Room 4108A, Mail Code 2249A
Washington, DC 20460
202 564-1845

Message

From: Turk, David [Turk.David@epa.gov]
Sent: 2/10/2020 10:07:31 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]; Krasnic, Toni [krasnic.toni@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Widawsky, David [Widawsky.David@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]; Wolf, Joel [Wolf.Joel@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Reisman, Larry [Reisman.Larry@epa.gov]
Subject: RE: Initial TRI PFAS List (NDAA)
Attachments: TRI-facility-email_updated_NDAA_List_2_10_2020.docx; Updated-NDAA_Webpage_2_10_2020.docx

I'm following up on this morning's action item for TRIPD to provide language that describes how and why the updated NDAA TRI PFAS list changed. As we discussed, the next step is for CCD and CESSD to provide feedback and then we can send the language to OGC for their review. Ideally we can pin down the language by COB Tuesday.

I'm providing two files: draft email to TRI facilities and draft edits to webpage. If you were to look at only one file, then the edits to the webpage is the more important file to consider.

Ex. 5 Deliberative Process (DP)

-Dave, 202-566-1527

-----Original Appointment-----

From: Turk, David
Sent: Thursday, February 06, 2020 1:37 PM
To: Turk, David; Henry, Tala; Scheifele, Hans; Widawsky, David; Williamson, Tracy; Wolf, Joel; Krasnic, Toni; Lloyd, Tyler; Reisman, Larry; Bushman, Daniel; Schechter, Kathryn; Vendinello, Lynn
Subject: Initial TRI PFAS List (NDAA)
When: Monday, February 10, 2020 10:00 AM-10:30 AM (UTC-05:00) Eastern Time (US & Canada).
Where: DCRoomEast3371C/DC-EPA-EAST-OCSPP-IO-OPMO

As discussed at today's meeting, here's a follow-up discussion to close out the discussion of the initial set of non-CBI PFAS added to TRI by the NDAA, and to ensure that we're all confident that we are ready to release the updated list to the public, resolving any lingering concerns/questions/policies/issues/hiccups should any still exist. In terms of Monday, this is the best time that I could find. I recognize that some invitees will not be able to attend; if this timeframe is a showstopper then let me know and I'll try to find another time.

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Following receipt and review of the updated list, I'll attach it to this meeting invite.

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Message

From: Reisman, Larry [Reisman.Larry@epa.gov]
Sent: 2/11/2020 12:57:11 PM
To: Turk, David [Turk.David@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Krasnic, Toni [krasnic.toni@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Widawsky, David [Widawsky.David@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]; Wolf, Joel [Wolf.Joel@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]
Subject: RE: Initial TRI PFAS List (NDAA)
Attachments: Updated-NDAA_Webpage_2_10_2020_LAR.docx

Thanks Dave! I made some edits to the webpage file (see attached). I thought the email to facilities was good.

Thanks!

Larry

From: Turk, David <Turk.David@epa.gov>
Sent: Monday, February 10, 2020 5:08 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Widawsky, David <Widawsky.David@epa.gov>; Vendinello, Lynn <Vendinello.Lynn@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>
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Sent: Thursday, February 06, 2020 1:37 PM
To: Turk, David; Henry, Tala; Scheifele, Hans; Widawsky, David; Williamson, Tracy; Wolf, Joel; Krasnic, Toni; Lloyd, Tyler; Reisman, Larry; Bushman, Daniel; Schechter, Kathryn; Vendinello, Lynn
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When: Monday, February 10, 2020 10:00 AM-10:30 AM (UTC-05:00) Eastern Time (US & Canada).
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Message

From: Krasnic, Toni [krasnic.toni@epa.gov]
Sent: 2/11/2020 1:39:29 PM
To: Reisman, Larry [Reisman.Larry@epa.gov]; Turk, David [Turk.David@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Widawsky, David [Widawsky.David@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]; Wolf, Joel [Wolf.Joel@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]
Subject: RE: Initial TRI PFAS List (NDAA)
Attachments: TRI-facility-email_updated_NDAA_List_2_10_2020_TK.docx; Updated-NDAA_Webpage_2_10_2020_LAR_TK.docx

Thanks Dave. My edits are attached.

Toni Krasnic
Existing Chemicals Branch
EPA/OCSP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

From: Reisman, Larry <Reisman.Larry@epa.gov>
Sent: Tuesday, February 11, 2020 7:57 AM
To: Turk, David <Turk.David@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Widawsky, David <Widawsky.David@epa.gov>; Vendinello, Lynn <Vendinello.Lynn@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>
Subject: RE: Initial TRI PFAS List (NDAA)

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Thanks!

Larry

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To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
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Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

-Dave, 202-566-1527

-----Original Appointment-----

From: Turk, David

Sent: Thursday, February 06, 2020 1:37 PM

To: Turk, David; Henry, Tala; Scheifele, Hans; Widawsky, David; Williamson, Tracy; Wolf, Joel; Krasnic, Toni; Lloyd, Tyler; Reisman, Larry; Bushman, Daniel; Schechter, Kathryn; Vendinello, Lynn

Subject: Initial TRI PFAS List (NDAA)

When: Monday, February 10, 2020 10:00 AM-10:30 AM (UTC-05:00) Eastern Time (US & Canada).

Where: DCRoomEast3371C/DC-EPA-EAST-OCSP-IO-OPMO

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English (United States)

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Conference ID: **Ex. 6 Personal Privacy (PP)**

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Message

From: Turk, David [Turk.David@epa.gov]
Sent: 2/12/2020 4:59:46 PM
To: Widawsky, David [Widawsky.David@epa.gov]; Krasnic, Toni [krasnic.toni@epa.gov]; Reisman, Larry [Reisman.Larry@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]; Wolf, Joel [Wolf.Joel@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Anapolle, Kent [Anapolle.Kent@epa.gov]
Subject: RE: Initial TRI PFAS List (NDAA)
Attachments: RE: FYI: Question on posted PFAS List ; TRI-facility-email_updated_NDAA_List_2_11_2020.docx; Updated-NDAA_Webpage_2_12_2020.docx

Update: OGC reviewed and approved the attached drafts of the email to facilities to apprise them of the updated list and of the NDAA TRI webpages.

Update: A group of us have been drafting a summary of what the 10536 category definition includes (a big thank you to Kathy for her leading this effort). I'm providing where we are with it (*italics* indicates text that may need to be modified depending on OGC's opinion):

Ex. 5 Deliberative Process (DP)

Lingering Next Step: My understanding is that once we pin down how to handle the question regarding (v) of the 10536 definition, we should essentially have the updated chemical list. We're reaching out to OGC to ask for their opinion as to whether

Ex. 5 Deliberative Process (DP)

FYI: Larry asked me to share the attached email with everyone as an FYI that we're continuing to be asked questions about the accuracy of the published list.

-Dave, 202-566-1527

From: Turk, David
Sent: Tuesday, February 11, 2020 2:23 PM
To: Widawsky, David <Widawsky.David@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Vendinello, Lynn <Vendinello.Lynn@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Anapolle, Kent <Anapolle.Kent@epa.gov>
Subject: RE: Initial TRI PFAS List (NDAA)

TRI has been speaking with Kathy and Toni about what will hopefully be the final, lingering question involving which PFAS to include on the TRI list. *We're looking for direction on how to proceed.*

Ex. 5 Deliberative Process (DP)

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-Dave, 202-566-1527

From: Widawsky, David <Widawsky.David@epa.gov>
Sent: Tuesday, February 11, 2020 9:13 AM
To: Krasnic, Toni <krasnic.toni@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Turk, David <Turk.David@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
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Subject: RE: Initial TRI PFAS List (NDAA)

Tracy is out sick again, today. So, we'll leave it in Kathy's capable hands to get the CESSD/ICB contribution to the language squared away today, per Dave's target. Kent Anapolle is acting BC today, in the unlikely event another ICB brain needs to be tapped.

- David

From: Krasnic, Toni <krasnic.toni@epa.gov>
Sent: Tuesday, February 11, 2020 8:39 AM
To: Reisman, Larry <Reisman.Larry@epa.gov>; Turk, David <Turk.David@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
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Toni Krasnic
Existing Chemicals Branch
EPA/OCSP/OPPT/CCD/ECB
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-Dave, 202-566-1527

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Sent: Thursday, February 06, 2020 1:37 PM
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Subject: Initial TRI PFAS List (NDAA)
When: Monday, February 10, 2020 10:00 AM-10:30 AM (UTC-05:00) Eastern Time (US & Canada).
Where: DCRoomEast3371C/DC-EPA-EAST-OCSPP-IO-OPMO

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Below is the draft for the email TRI would send to TRI facilities to inform them of the updated PFAS list.

EPA is providing an updated list of per- and polyfluoroalkyl substances (PFAS) subject to TRI reporting.

As indicated on January 16, 2020, the National Defense Authorization Act for Fiscal Year 2020 (NDAA) added certain PFAS to the list of chemicals subject to TRI reporting and provides a framework for other PFAS to be added to the TRI list.

For the PFAS initially added by the NDAA with an effective date of January 1, 2020 (reports due by July 1, 2021), the NDAA listed all PFAS that had been listed as “active in commerce” in the February 2019 update to the TSCA Inventory that are subject to 40 CFR 721.9582 or 721.10536. The 721.9582 citation lists specific PFAS whereas the 721.10536 citation provides a category definition.

Upon further review of the list of 160 PFAS that met the NDAA’s initial listing criteria, EPA has determined that XXX PFAS meet the criteria. This updated list reflects the removal of XX PFAS that did not meet the category definition provided by 721.10536 and added XX that do meet the definition.

Please visit the following webpage to access the updated list of the added PFAS and to learn more about how the list has been updated as well as to learn how the National Defense Authorization Act for Fiscal Year 2020 (NDAA) affects the TRI reporting requirements: [HYPERLINK "<https://www.epa.gov/toxics-release-inventory-tri-program/addition-certain-pfas-tri-national-defense-authorization-act>"].

Message

From: Bushman, Daniel [Bushman.Daniel@epa.gov]
Sent: 2/13/2020 1:21:27 PM
To: Krasnic, Toni [krasnic.toni@epa.gov]; Turk, David [Turk.David@epa.gov]
CC: Williamson, Tracy [Williamson.Tracy@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Wolf, Joel [Wolf.Joel@epa.gov]
Subject: RE: Question Regarding Scope of 721.10536 Definitions

My reading of this text is that it just explains that the structural definitions cover

Ex. 5 Deliberative Process (DP)

Daniel R. Bushman, Ph.D.
TRI Petitions Coordinator and Chemical List Manager
202-566-0743
OCSPP/OPPT/TRI Program Division/Regulatory Development Branch
www.epa.gov/tri/chemicals

From: Krasnic, Toni <krasnic.toni@epa.gov>
Sent: Thursday, February 13, 2020 8:10 AM
To: Turk, David <Turk.David@epa.gov>
Cc: Bushman, Daniel <Bushman.Daniel@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Sorry to add another wrinkle to this discussion.

The [2015 final SNUR](#) (page 62445) includes this paragraph on precursors:

The category of LCPFAC chemical substances, based on the chemical structures delineated in 40 CFR 721.10536 (b)(1)(i) through (b)(1)(v) of this final rule, **also includes the salts and precursors** of these perfluorinated carboxylates. LCPFAC precursors may be simple derivatives of perfluorooctanoic acid (PFOA) and higher homologues or certain polymers that may degrade to PFOA or higher homologues. These precursors include all fluorotelomers.

Could CF₃(CF₂)_m-Y be a precursor to (i) though (iv)? If yes, then it should be included even though it doesn't meet the (v) criteria.

Although “precursors” is not mentioned at 40 CFR § 721.10536, EPA has always included “salts and precursors” in the LCPFAC category.

Thanks,

Toni Krasnic
Existing Chemicals Branch
EPA/OCSPP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

From: Turk, David <Turk.David@epa.gov>
Sent: Wednesday, February 12, 2020 5:03 PM
To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

After additional discussion with ICB,

Ex. 5 Deliberative Process (DP)

Ex. 5 Attorney Client (AC)

From: Turk, David
Sent: Wednesday, February 12, 2020 1:28 PM
To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

We have another question for OGC. This question involves one of the structural formulas provided by 40 CFR 721.10536,

Ex. 5 Attorney Client (AC)

whether to include such chemicals.

Ex. 5 Attorney Client (AC)

-Dave, 202-566-1527

From: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>

Sent: Monday, February 03, 2020 4:27 PM

To: Turk, David <Turk.David@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>

Subject: RE: Question Regarding Scope of 721.10536 Definitions

Dave, I've consolidated below the input received from within PTSLO on your question. Once you've had a chance to digest it all, please let us know if you have any additional questions or concerns that you need us to address. Thanks, Chris

Ex. 5 Attorney Client (AC)

Ex. 5 Attorney Client (AC)

Chris E. Kaczmarek
Assistant General Counsel
Pesticide and Toxic Substance Law Office
Office of General Counsel
U.S. EPA
Tel (202) 564-3909

From: Turk, David <Turk.David@epa.gov>
Sent: Thursday, January 30, 2020 1:14 PM
To: Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>
Subject: Question Regarding Scope of 721.10536 Definitions

Steve,

Ex. 5 Attorney Client (AC)

Ex. 5 Attorney Client (AC)

-Dave, 202-566-1527

Message

From: Turk, David [Turk.David@epa.gov]
Sent: 2/13/2020 2:21:14 PM
To: Kaczmarek, Chris [Kaczmarek.Chris@epa.gov]; Anderson, Steve [Anderson.Steve@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]; Krasnic, Toni [krasnic.toni@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Reisman, Larry [Reisman.Larry@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sadowsky, Don [Sadowsky.Don@epa.gov]; Thaler, Elizabeth [thaler.elizabeth@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Great. Thanks everyone. OPPT has a meeting this morning on this topic. If anything changes w/ our plan forward, I'll let you know.

Otherwise, I think that we're good to go, and it's useful to know that your initial reaction to the "who needs the X anyhow" approach was not necessarily favorable (or, "necessarily aglow" if we're trying to maintain a rhyme scheme).

From: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>
Sent: Thursday, February 13, 2020 8:46 AM
To: Anderson, Steve <Anderson.Steve@epa.gov>; Turk, David <Turk.David@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Sorry, just catching up on this email chain now. No objections from me.

Chris E. Kaczmarek
Assistant General Counsel
Pesticide and Toxic Substance Law Office
Office of General Counsel
U.S. EPA
Tel (202) 564-3909

From: Anderson, Steve <Anderson.Steve@epa.gov>
Sent: Thursday, February 13, 2020 8:08 AM
To: Turk, David <Turk.David@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Ex. 5 Deliberative Process (DP)

Chris – if you think differently, let me or Dave know please.

From: Turk, David <Turk.David@epa.gov>

Sent: Wednesday, February 12, 2020 5:03 PM

To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Subject: RE: Question Regarding Scope of 721.10536 Definitions

Ex. 5 Attorney Client (AC)

From: Turk, David

Sent: Wednesday, February 12, 2020 1:28 PM

To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Subject: RE: Question Regarding Scope of 721.10536 Definitions

Ex. 5 Attorney Client (AC)

From: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>

Sent: Monday, February 03, 2020 4:27 PM

To: Turk, David <Turk.David@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>

Subject: RE: Question Regarding Scope of 721.10536 Definitions

Dave, I've consolidated below the input received from within PTSLO on your question. Once you've had a chance to digest it all, please let us know if you have any additional questions or concerns that you need us to address. Thanks, Chris

From Steve:

Ex. 5 Deliberative Process (DP)

From Don (initial impressions):

Ex. 5 Deliberative Process (DP)

From Don (additional, clarifying input):

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Chris E. Kaczmarek
Assistant General Counsel
Pesticide and Toxic Substance Law Office
Office of General Counsel
U.S. EPA
Tel (202) 564-3909

From: Turk, David <Turk.David@epa.gov>

Sent: Thursday, January 30, 2020 1:14 PM

To: Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>

Subject: Question Regarding Scope of 721.10536 Definitions

Steve,

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

-Dave, 202-566-1527

Message

From: Christian, Myrta [Christian.Myrta@epa.gov]
Sent: 4/1/2020 8:08:14 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: PFAS data call

Thanks!

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 1, 2020 4:05 PM
To: Christian, Myrta <Christian.Myrta@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS data call

I sent an email to James to get you both access. Let's see how quick he responds!!!

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Christian, Myrta <Christian.Myrta@epa.gov>
Sent: Wednesday, April 01, 2020 4:05 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS data call

Hi Kathy,

Yes, I would like to get access.

Thank you,

Myrta

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 1, 2020 3:51 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Christian, Myrta <Christian.Myrta@epa.gov>
Subject: FW: PFAS data call

The PFAS data call workgroup wants ICB to work with ORD on the definition or list of substances. Below is a link to the scoping document with its comments.

Ex. 6 Personal Privacy (PP)

They want input in the next week. Let me know if you cannot access the folder. I mentioned Tracy, but forgot to mention Myrta. Myrta, do you want access?

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

Message

From: Tyree, JamesN [tyree.jamesn@epa.gov]
Sent: 4/1/2020 8:10:43 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: RE: PFAS data call

Done.

James

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 01, 2020 4:08 PM
To: Tyree, JamesN <tyree.jamesn@epa.gov>
Subject: RE: PFAS data call

Make sure to include both with access. I forgot about Myrta earlier. Thanks!

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Tyree, JamesN <tyree.jamesn@epa.gov>
Sent: Wednesday, April 01, 2020 4:05 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: PFAS data call

thanks

James

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 01, 2020 4:03 PM
To: Tyree, JamesN <tyree.jamesn@epa.gov>
Subject: FW: PFAS data call

fyi

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Wednesday, April 01, 2020 3:55 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Christian, Myrta <Christian.Myrta@epa.gov>
Subject: RE: PFAS data call

I don't have permission.

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 1, 2020 3:51 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Christian, Myrta <Christian.Myrta@epa.gov>
Subject: FW: PFAS data call

The PFAS data call workgroup wants ICB to work with ORD on the definition or list of substances. Below is a link to the scoping document with its comments.

Ex. 6 Personal Privacy (PP)

They want input in the next week. Let me know if you cannot access the folder. I mentioned Tracy, but forgot to mention Myrta. Myrta, do you want access?

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Bushman, Daniel [Bushman.Daniel@epa.gov]
Sent: 4/14/2020 9:06:45 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Turk, David [Turk.David@epa.gov]
Subject: RE: Scope of PFAS definition

Ex. 5 Deliberative Process (DP)

Daniel R. Bushman, Ph.D.
TRI Petitions Coordinator and Chemical List Manager
202-566-0743
OCSP/OPPT/TRI Program Division/Regulatory Development Branch
www.epa.gov/tri/chemicals

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Tuesday, April 14, 2020 4:53 PM
To: Bushman, Daniel <Bushman.Daniel@epa.gov>
Cc: Turk, David <Turk.David@epa.gov>
Subject: RE: Scope of PFAS definition

Don't forget to **Ex. 5 Deliberative Process (DP)**

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Bushman, Daniel <Bushman.Daniel@epa.gov>
Sent: Tuesday, April 14, 2020 4:44 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Turk, David <Turk.David@epa.gov>
Subject: RE: Scope of PFAS definition

It also doesn't help **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

It will be interesting to see what ORD suggests.

Daniel R. Bushman, Ph.D.
TRI Petitions Coordinator and Chemical List Manager
202-566-0743
OCSPP/OPPT/TRI Program Division/Regulatory Development Branch
www.epa.gov/tri/chemicals

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Tuesday, April 14, 2020 4:37 PM
To: Bushman, Daniel <Bushman.Daniel@epa.gov>
Cc: Turk, David <Turk.David@epa.gov>
Subject: RE: Scope of PFAS definition

Thanks Dan. It is hard to come up with a definition when you do not know what the limitations are! We have seen all kinds of structures: **Ex. 5 Deliberative Process (DP)** For example, **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Bushman, Daniel <Bushman.Daniel@epa.gov>
Sent: Tuesday, April 14, 2020 4:27 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Turk, David <Turk.David@epa.gov>
Subject: RE: Scope of PFAS definition

Hi Kathy,
I was excluding

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Dan

Daniel R. Bushman, Ph.D.
TRI Petitions Coordinator and Chemical List Manager
202-566-0743
OCSPP/OPPT/TRI Program Division/Regulatory Development Branch
www.epa.gov/tri/chemicals

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Tuesday, April 14, 2020 3:37 PM
To: Bushman, Daniel <Bushman.Daniel@epa.gov>

Cc: Turk, David <Turk.David@epa.gov>

Subject: RE: Scope of PFAS definition

Hi Dan. All comments are welcome! Not sure if I am understanding you correctly. It sounds like you think

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Bushman, Daniel <Bushman.Daniel@epa.gov>

Sent: Tuesday, April 14, 2020 3:20 PM

To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Cc: Turk, David <Turk.David@epa.gov>

Subject: Scope of PFAS definition

Hi Kathy,

Thought I would share my 2 cents worth for the 8(a) call. For the PFAS scope I suggest

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

ATSDR Fact Sheet:

"In perfluoroalkyl substances all carbons except the last one are attached to fluorines. The last carbon attaches to the functional group.

In polyfluoroalkyl substances at least one (but not all) carbons are attached to fluorines."

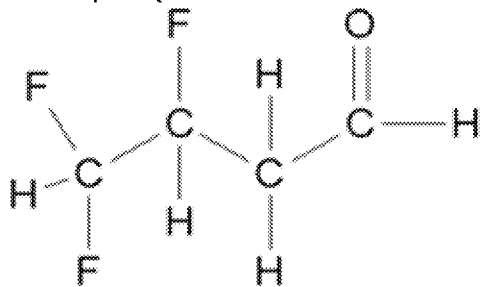
By having the last carbon not connected to a fluorine you exclude the category of chemicals called perfluorocarbons:

"Perfluorocarbons are a group of chemicals composed of carbon and fluorine only. Perfluorocarbons are powerful greenhouse gases that were introduced as alternatives to ozone depleting substances."

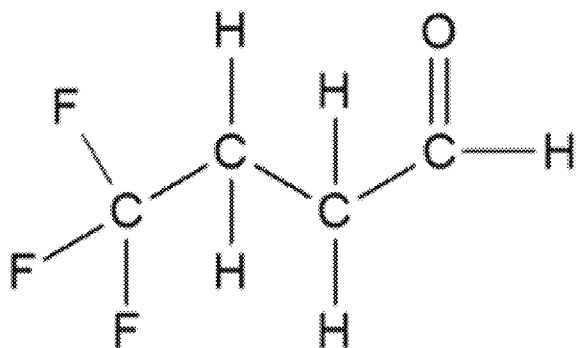
The perfluorocarbons up through butane are all gases.

So $C_4F_3R_5$ would be the starting formula where the Rs need to be defined.

Example (in this case the Rs are the Hs and O):



If we wanted to include a CF₃ as a requirement then the base structure would be:



Daniel R. Bushman, Ph.D.

TRI Petitions Coordinator and Chemical List Manager

202-566-0743

OCSPP/OPPT/TRI Program Division/Regulatory Development Branch

www.epa.gov/tri/chemicals

Message

From: Nguyen, Nhan [Nguyen.Nhan@epa.gov]
Sent: 4/14/2020 1:26:53 AM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Tobias, David [Tobias.David@epa.gov]
Subject: FW: 8(a) PFAS Data Call Workgroup
Attachments: PFAS Act of 2019 Subtitle E.DOCX; Attach2_PFAS scope_workingcopy.docx; EarlyGuidancePrimer_workingcopy.docx

Hi Kathryn:

My apology. I thought I provided David's name to you but I got sidetracked and just realized I did not. I am not sure where you are with the one page document defining PFAS and considerations.

Please include David Tobias in further work on this (cc: me).

Thanks

Nhan

Nhan Nguyen
Chief, Assessment Branch V
Risk Assessment Division
Office of Pollution Prevention and Toxics
US EPA
1200 Pennsylvania Ave., NW
Washington, DC 20460
202-564-8526

From: Nguyen, Nhan
Sent: Friday, April 03, 2020 9:53 AM
To: Tobias, David <Tobias.David@epa.gov>
Cc: Eisenreich, Karen <Eisenreich.Karen@epa.gov>
Subject: FW: 8(a) PFAS Data Call Workgroup

David,

As mentioned this morning, one of the tasks of the 8(a) PFAS Data Call WG is to develop criteria for PFAS chemical. CESSD/ICB (Kathy Schechter) and some ORD folks have drafted a couple of short documents: one is the attached Early Guidance document and the other one is a very short one-pager document defining PFAS and considerations. I believe ICB (Kathy Schechter) and perhaps with some ORD folks have drafted the one page document "Attach 2_PFAS scope_workingcopy". Please review and/or have Jed review this one page document and provide your comments on this by cob next Tuesday, 4/07. I will give your name to Kathy Schechter and CCD as they would like input from a fate person in RAD.

FYI and in case you would like additional background on the WG, I have attached the PFAS Act of 2019 Subtitle E and also the EarlyGuidancePrimer that the WG is working on.

Thanks

Nhan

Nhan Nguyen
Chief, Assessment Branch V
Risk Assessment Division
Office of Pollution Prevention and Toxics
US EPA
1200 Pennsylvania Ave., NW
Washington, DC 20460
202-564-8526

From: Blaufuss, Hannah
Sent: Tuesday, March 31, 2020 11:51 AM
To: Tyree, JamesN <tyree.jamesn@epa.gov>; Smith, ThomasA <smith.thomasa@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Callahan, Leigh <Callahan.Leigh@epa.gov>; Ballard, Darryl <Ballard.Darryl@epa.gov>; Gorder, Chris <Gorder.Chris@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Nguyen, Nhan <Nguyen.Nhan@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Schwarz, Stephanie <Schwarz.Stephanie@epa.gov>; Cybulski, Walter <Cybulski.Walter@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Sharkey, Susan <Sharkey.Susan@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>
Subject: RE: 8(a) PFAS Data Call Workgroup

Hello PFAS Data Call Workgroup,

This is a friendly reminder to review the documents in the "Briefing Documents for Your Input" folder on OneDrive before the meeting tomorrow.

The folder is located here: [https://usepa-my.sharepoint.com/:f:/r/personal/tyree_jamesn_epa_gov/Documents/PFAS%208\(a\)%20Rulemaking/Briefing%20Documents%20for%20Your%20Input?csf=1&e=ZeUCx2](https://usepa-my.sharepoint.com/:f:/r/personal/tyree_jamesn_epa_gov/Documents/PFAS%208(a)%20Rulemaking/Briefing%20Documents%20for%20Your%20Input?csf=1&e=ZeUCx2)

Thank you,

Hannah Blaufuss

Environmental Protection Specialist
U.S. EPA Office of Pollution Prevention and Toxics
Chemical Control Division
Phone: (202) 564-5614

♻ Please do not print this email unless absolutely necessary ♻
For information on COVID-19 visit the [CDC](https://www.cdc.gov)

Appointment

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
on behalf of Henry, Tala [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8BFC0A617A4A43BAA8856541C70622BE-THENRY02]
Sent: 7/16/2020 6:47:19 PM
To: Butler, Tristan [Butler.Tristan@epa.gov]
Subject: FW: TSCA section 8(a) PFAS Data Call
Attachments: PFAS rule_AGENDA_7-20-2020.docx; Questions on PFAS Scope_7-20-2020.docx; Tier 3 rule schedule_7.13.20.xlsx; Attach1_DataUsage_7-20-20.docx
Location: Skype Meeting
Start: 7/20/2020 5:00:00 PM
End: 7/20/2020 6:00:00 PM
Show Time As: Tentative

-----Original Appointment-----

From: Henry, Tala <Henry.Tala@epa.gov>
Sent: Monday, July 06, 2020 10:35 AM
To: Henry, Tala; Passe, Loraine; Vendinello, Lynn; Tyree, JamesN; Blaufuss, Hannah; Fahning, Diana; Scheifele, Hans; Le, Madison; Schwarz, Stephanie; Schechter, Kathryn
Cc: Pierce, Alison; Schmit, Ryan; Weir, Harlan
Subject: TSCA section 8(a) PFAS Data Call
When: Monday, July 20, 2020 1:00 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Skype Meeting

Purpose: Follow-up from our 6/29 meeting on items including: 1) PFAS definition; 2) data use; 3) small business exemption; and 4) outreach.

BRIEFING MATERIALS:

Loraine Passe (CCD)
(202) 564-9064

Join Skype Meeting

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English (United States)

[Find a local number](#)

Conference ID: 162912

[Forgot your dial-in PIN?](#) | [Help](#)

.....

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 4/22/2020 11:37:38 AM
To: Tyree, JamesN [tyree.jamesn@epa.gov]; Blaufuss, Hannah [Blaufuss.Hannah@epa.gov]
Subject: updated scope document
Attachments: Attach2_PFAS scope_workingcopy new.docx

I pulled the file from folder and removed all comments/edits – I work better without distractions! Attached is my updated document. I wanted to know if you want me to include the changes in the file online using track changes instead of creating a new document. I made significant edits to the definitions section and minor edits elsewhere. Thoughts? I can do this either way...

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

Attachment 2: PFAS Scope

Background: PFAS chemicals that EPA has reviewed through the new chemicals program and those listed on the TSCA active inventory are wide and varied as the substances come in all orientations, shapes, and sizes. Additionally, each PFAS chemistry submitted through the new chemicals program presents a new structure.

Because the FY 2020 NDAA is silent on what PFAS to include in the Data Call, the OPPT workgroup requests EPA leadership and interagency PFAS workgroup guidance on (1) the approach for presenting which PFAS to include and (2) more specifically the criteria used to select the PFAS for inclusion.

The OPPT workgroup has first identified the following three approaches to address the PFAS scope: (1) a PFAS definition or a set of criteria for selection or (2) a discrete list of PFAS to include in the rule or (3) a hybrid of a PFAS definition and a discrete list of known substances that meet this definition.

Considerations for a PFAS definition/criteria:

Ex. 5 Deliberative Process (DP)

Commented [SK1]: Does this still apply with the changes I made?

Ex. 5 Deliberative Process (DP)

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 4/30/2020 4:05:31 PM
To: Tyree, JamesN [tyree.jamesn@epa.gov]; Blaufuss, Hannah [Blaufuss.Hannah@epa.gov]
Subject: RE: Scoping Document
Attachments: Attach2_PFAS scope_Draft.ks.docx

Added my comments

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Tyree, JamesN <tyree.jamesn@epa.gov>
Sent: Thursday, April 30, 2020 11:25 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>
Subject: Scoping Document
Importance: High

Hi,

First off, I neglected following the revisions of the documents until now. My bad. I read the document as someone who is being asked to make decisions/provide input, so I restructured the layout and built up the discussion (considerations) on the options. I wanted to more clearly separate the criteria options from the presentation options. Please take a look at this and let me know if I'm way off base. There are a couple of comments where I need your input. Thanks!

James Tyree, P.E.
Senior Advisor
Office of the Assistant Administrator
Office of Chemical Safety and Pollution Prevention
U.S. EPA
202-564-2658

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 4/23/2020 12:33:54 PM
To: Bushman, Daniel [Bushman.Daniel@epa.gov]
Subject: RE: ATSDR PFAS Info

Thanks Dan. You are always helpful!

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Bushman, Daniel <Bushman.Daniel@epa.gov>
Sent: Thursday, April 23, 2020 8:23 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: ATSDR PFAS Info

Hi Kathy,

Thought the attached might help for justification in leaving out perfluorocarbons from the PFAS definition. ATSDR considers them a different family of chemicals.

Dan

Daniel R. Bushman, Ph.D.
TRI Petitions Coordinator and Chemical List Manager
202-566-0743
OCSPP/OPPT/TRI Program Division/Regulatory Development Branch
www.epa.gov/tri/chemicals

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 10/1/2020 8:44:25 PM
To: Butler, Tristan [Butler.Tristan@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Christian, Myrta [Christian.Myrta@epa.gov]
Subject: RE: PFAS CC: Oct 7 review of OLEM's PFAS Usage Document

Great thoughts, Tristan, and I heartily agree. I did not find anything else that stood out.

kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Butler, Tristan <Butler.Tristan@epa.gov>
Sent: Thursday, October 01, 2020 1:29 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Christian, Myrta <Christian.Myrta@epa.gov>
Subject: RE: PFAS CC: Oct 7 review of OLEM's PFAS Usage Document

Hi Tracy,

I just finished reviewing the introduction to the manuscript. I don't have much to add beyond what you and Kathy have already provided, but here are my comments:

-
- **Ex. 5 Deliberative Process (DP)**
-

Please let me know if there is anything else I can do to help.

Tristan

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Thursday, October 1, 2020 12:19 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>

Cc: Christian, Myrta <Christian.Myrta@epa.gov>

Subject: FW: PFAS CC: Oct 7 review of OLEM's PFAS Usage Document

Another fire drill ... Can you review the introduction section of this draft and provide comments? No need to review all of the use sections. Deadline is asap.

My comments so far are:

-
- **Ex. 5 Deliberative Process (DP)**
-

From: Le, Madison <Le.Madison@epa.gov>

Sent: Thursday, October 1, 2020 8:05 AM

To: Williamson, Tracy <Williamson.Tracy@epa.gov>

Cc: Henry, Tala <Henry.Tala@epa.gov>

Subject: Fwd: PFAS CC: Oct 7 review of OLEM's PFAS Usage Document

Tracy - Could you help do a quick review? Thanks.

Sent from my iPhone

Begin forwarded message:

From: "Henry, Tala" <Henry.Tala@epa.gov>

Date: October 1, 2020 at 7:59:01 AM EDT

To: "Symmes, Brian" <Symmes.Brian@epa.gov>, "Wolf, Joel" <Wolf.Joel@epa.gov>, "Le, Madison" <Le.Madison@epa.gov>

Cc: "Pierce, Alison" <Pierce.Alison@epa.gov>

Subject: FW: PFAS CC: Oct 7 review of OLEM's PFAS Usage Document

This needs quick review and should be done so considering the 'Usage' document that OPPT compiled about 2 yrs ago based on TSCA inventory, CDR etc. If any of our information conflicts or could be added for broader perspective, we should make that comment/provide that information.

I don't recall exactly who all was involved in the OPPT document, but recall CCD had the lead and as I recall, Toni & Tracy Williamson were involved and I think economist(s) also.

Tala R. Henry, Ph.D.
Deputy Director
Office of Pollution Prevention & Toxics

T: 202-564-2959
E: henry.tala@epa.gov

From: Rose, Bob <Rose.Bob@epa.gov>

Sent: Thursday, October 1, 2020 7:51 AM

To: Allenbach, Becky <Allenbach.Becky@epa.gov>; Cassidy, Meghan <Cassidy.Meghan@epa.gov>; Church, Zach <Church.Zach@epa.gov>; Cooperstein, Sharon <Cooperstein.Sharon@epa.gov>; Corr, Elizabeth <Corr.Elizabeth@epa.gov>; DAgostino, Daniel <DAgostino.Daniel@epa.gov>; Dressel, Paul <DRESSSEL.PAUL@EPA.GOV>; Flaherty, Colleen <Flaherty.Colleen@epa.gov>; Fong, Tera <Fong.Tera@epa.gov>; Grzegozewski, Nicholas <Grzegozewski.Nicholas@epa.gov>; Guilaran, Yu-Ting <Guilaran.Yu-Ting@epa.gov>; Heller, Emily <heller.emily@epa.gov>; Jacobs, Brittany <jacobs.brittany@epa.gov>; Klasen, Matthew <Klasen.Matthew@epa.gov>; Lalley, Cara <Lalley.Cara@epa.gov>; Linkins, Samantha <Linkins.Samantha@epa.gov>; Linsk, Abigail (Abbey) <Linsk.Abbey@epa.gov>; Lowery, Brigid <Lowery.Brigid@epa.gov>; Mandolia, Michelle <Mandolia.Michelle@epa.gov>; OBrien, Kathy <Obrien.Kathy@epa.gov>; Ruf, Christine <Ruf.Christine@epa.gov>; Skane, Elizabeth <Skane.Elizabeth@epa.gov>; Srivastava, Ravi <Srivastava.Ravi@epa.gov>; Stalcup, Dana <Stalcup.Dana@epa.gov>; Steiner-Riley, Cara <Steiner-Riley.Cara@epa.gov>; Tiago, Joseph <Tiago.Joseph@epa.gov>; Behl, Betsy <Behl.Betsy@epa.gov>; Foster, Stiven <Foster.Stiven@epa.gov>; Holsinger, Hannah <Holsinger.Hannah@epa.gov>; Lan, Alexis <lan.alexis@epa.gov>; Lousberg, Macara <Lousberg.Macara@epa.gov>; Miller, Wynne <Miller.Wynne@epa.gov>; Opalski, Dan <Opalski.Dan@epa.gov>; Rose, Bob <Rose.Bob@epa.gov>; Sawyers, Andrew <Sawyers.Andrew@epa.gov>; Bertrand, Charlotte <Bertrand.Charlotte@epa.gov>; Kramer, Jessica L. <kramer.jessical@epa.gov>; Gervais, Gregory <Gervais.Gregory@epa.gov>; Gillespie, Andrew <Gillespie.Andrew@epa.gov>; Henry, Tala <Henry.Tala@epa.gov>; Kaiser, Sven-Erik <Kaiser.Sven-Erik@epa.gov>; Koerber, Mike <Koerber.Mike@epa.gov>; Levine, Carolyn <Levine.Carolyn@epa.gov>; Lewis, Jen <Lewis.Jen@epa.gov>; Mackey, Cyndy <Mackey.Cyndy@epa.gov>; McLain, Jennifer L. <McLain.Jennifer@epa.gov>; Messier, Dawn <Messier.Dawn@epa.gov>; Nagle, Deborah <Nagle.Deborah@epa.gov>; Nickerson, William <Nickerson.William@epa.gov>; Raffaele, Kathleen <raffaele.kathleen@epa.gov>; Subramanian, Hema <Subramanian.Hema@epa.gov>; Voyles, Travis <Voyles.Travis@epa.gov>; Wehling, Carrie <Wehling.Carrie@epa.gov>; Drinkard, Andrea <Drinkard.Andrea@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Anderson-Carnahan, Linda <Anderson-Carnahan.Linda@epa.gov>; Ash, Christine <Ash.Christine@epa.gov>; Banister, Beverly <Banister.Beverly@epa.gov>; Esher, Diana <Esher.Diana@epa.gov>; Gray, David <gray.david@epa.gov>; Holst, Linda <holst.linda@epa.gov>; James, Duane <James.Duane@epa.gov>; Morton, Michael <Morton.Michael@epa.gov>; O'Connor, Darcy <oconnor.darcy@epa.gov>; Rasmussen, Russell <rasmussen.russell@epa.gov>; Robichaud, Jeffery <Robichaud.Jeffery@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>

Subject: PFAS CC: Oct 7 review of OLEM's PFAS Usage Document

PFAS CC:

Please submit comments to Linda Gaines, the document's author, and cc Kathleen Raffaele and Dawn Banks by COB, Wednesday, October 7. Please let Dana Stalcup know if you have any questions.

This document is a compilation of information from a literature search of publicly available information from diverse sources. It is a summary of PFAS use in the US, categorized by product type or industry sector. While the intended audience is Superfund RPMs, OSCs and other technical/scientific staff (both at EPA and other agencies), OLEM advocate submitting the final updated version to a peer-reviewed journal for publication (by Linda Gaines) will allow for ease of citation and uniformity. To date, the draft, currently labeled as Version 7, has thus far been reviewed by ORD, OCSPP, PARMS, and OSRTI for technical information or for readability.

To provide additional background and context, a similar, previous document was shared with the Regions and ultimately more widely with the states; that document is available at <https://portal.ct.gov/-/media/DEEP/PFASTaskForce/EPAPFASUsageFeb2018pdf.pdf>.

OLEM/OSRTI intends to follow up with the OLEM IO on PFAS CC comments received and how OSRTI plans to address them prior to adjudicating them promptly to finalize the document and submitting it to a peer-reviewed publication.

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 6/26/2019 11:30:21 AM
To: Krasnic, Toni [krasnic.toni@epa.gov]
Subject: RE: PFAS Definition

R can be anything except a Hydrogen.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Krasnic, Toni
Sent: Tuesday, June 25, 2019 4:43 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: PFAS Definition

Hi Kathy,

Thank for the clarification today on the PFAS definition: $\text{CF}_2(\text{R}')\text{-CF}(\text{R}'')(\text{R}''')$ substructure.

In $\text{CF}_2(\text{R}')\text{-CF}(\text{R}'')(\text{R}''')$, how is the "R" defined?

Thanks,

Toni Krasnic
Existing Chemicals Branch
EPA/OCSP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 1/21/2021 6:58:26 PM
To: Butler, Tristan [Butler.Tristan@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: PFAS terminology OECD comments
Attachments: OECD PFAS document comments.docx

I have attached here comments from Tristan and me. These were put together based on our conversation together so a lot of the statements are repeated but worded differently. I thought I would send you both!

Feel free to look over and we can discuss. I did not fill out the comment document that went with the draft document...

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

OECD PFAS document comments:

Tristan' summary of our discussion:

Here is a write up of the things we discussed yesterday. Please let me know if I forgot to include anything.

Ex. 5 Deliberative Process (DP)

Kathy comments worded slightly different plus a few other comments:

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 2/11/2021 2:45:09 PM
To: Nazef, Laura [Nazef.Laura@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Yes, I should be able to make it. Can you add Tristan Butler as well? We are trying to train another ICB person on PFAS...

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Thursday, February 11, 2021 9:27 AM
To: Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Thanks Tyler.

Kathy, are you available to participate in a call that ORD is having with the Michigan PFAS Action Response Team (MPACT) on February 25 at 10? They will be discussing how EPA programs are defining PFAS, among other topics.

See below for more information.

Thanks, Laura

From: Lloyd, Tyler <Lloyd.Tyler@epa.gov>
Sent: Thursday, February 11, 2021 7:44 AM
To: Nazef, Laura <Nazef.Laura@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Laura,

I am unavailable at this time. However, I would see if Kathryn Schechter is available. She is chemist in ICB and my go-to-person for determining the classification of PFAS substances.

-Tyler

Tyler Edward Lloyd
Environmental Protection Specialist
U.S. Environmental Protection Agency
Office of Pollution Prevention and Toxics
Chemical Control Division
Tel (202) 564-4016

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Wednesday, February 10, 2021 3:03 PM
To: Lloyd, Tyler <Lloyd.Tyler@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Tyler,

Would you be able to participate in this call for OPPT? I don't think I'm the right person.

Thanks, Laura

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Wednesday, February 10, 2021 3:00 PM
To: Nazef, Laura <Nazef.Laura@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Mills, Marc <mills.marc@epa.gov>
Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Patlewicz, Grace <Patlewicz.Grace@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Laura and Tony,

Would you be willing to speak to this issue on our call with MPART on Feb 25 from 10-11 AM? These are technical exchanges by EPA and MPART. We have a couple of other agenda topics in the works.

Thank you,
Lisa Matthews

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Wednesday, February 10, 2021 2:55 PM
To: Richard, Ann <Richard.Ann@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Mills, Marc <mills.marc@epa.gov>
Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Patlewicz, Grace <Patlewicz.Grace@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi all,

In case this is helpful as you gather information for your call, there is a definition for long-chain perfluoroalkyl carboxylate (LCPFAC) chemicals in the recent TSCA SNUR:

<https://www.federalregister.gov/documents/2020/07/27/2020-13738/long-chain-perfluoroalkyl-carboxylate-and-perfluoroalkyl-sulfonate-chemical-substances-significant>

Here is the chemical structure definition used:

b) *Chemical substances and significant new uses subject to reporting.* (1) The chemical substances identified in this paragraph, where $5 < n < 21$ or $6 < m < 21$, are subject to reporting under this section for the significant new uses described in paragraph (b)(4)(i) and (b)(4)(iv) of this section.

(i) $\text{CF}_3(\text{CF}_2)_n\text{-COO M}$ where $\text{M} = \text{H}^+$ or any other group where a formal dissociation can be made;

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Tuesday, February 9, 2021 1:49 PM
To: Richard, Ann <Richard.Ann@epa.gov>; Mills, Marc <mills.marc@epa.gov>
Cc: McCabe, Erin <mccabe.erin@epa.gov>
Subject: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Ann and Marc,
Hope all is well with both of you. ORD has been having regular calls with the Michigan PFAS Action Response Team (MPART) since last year to discuss PFAS destruction research.

Our next call is coming up on February 25 from 10-11 AM ET. One of the topics MPART would like EPA to cover is how EPA programs are defining PFAS (see below). Would you be able to talk about this on our call?

Thanks, and please let me know if you have any questions. We'll be working to finalize the call agenda by the middle of next week.

Lisa

From: Rodan, Bruce <rodan.bruce@epa.gov>
Sent: Tuesday, February 9, 2021 1:33 PM
To: Burden, Susan <Burden.Susan@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Lisa,

There have been some debates about defining PFAS – very minutia. Ann Richards in CCTE will know, and Marc Mills worked on a recent manuscript that we back and forth over the OECD definition.

Dr. Bruce Rodan
Associate Director for Science
EPA Office of Research and Development

From: Burden, Susan <Burden.Susan@epa.gov>
Sent: Tuesday, February 9, 2021 12:37 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Lisa,

Carlos Pachon is the lead in OLEM for the destruction and disposal guidance, so he would be the person to reach out to for the MPART call.

As far as EPA programs defining PFAS, I'm not aware of any EPA programs that have had to define PFAS "at the organic chemistry level" (i.e., not by CASRNs). I don't know that any of EPA's programs would have much to say about this issue at this point in time.

Thanks,

Susan

Susan Burden, Ph.D.
Scientific Support Advisor & ORD PFAS Executive Lead
Office of Science Advisor, Policy and Engagement
Office of Research and Development
US Environmental Protection Agency
Phone: (202) 564-6308 | (202) 740-0169
Email: burden.susan@epa.gov

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Tuesday, February 09, 2021 12:12 PM
To: Burden, Susan <Burden.Susan@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: FW: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Susan,
Is the interim destruction guidance from OLEM? Who is point person in OLEM for this issue that we could invite to join the call with MPART?

Also thoughts on how EPA programs are defining PFAS?

Thanks,
Lisa

From: Sliver, Steve (EGLE) <SLIVERS@michigan.gov>
Sent: Tuesday, February 9, 2021 7:51 AM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>; taylorj1@michigan.gov
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning Lisa,

In addition, would it be possible for someone from EPA to cover next steps with the interim destruction guidance, especially the request for additional field testing and implementation of the interim storage option?

Following up on Joy's presentation of our working description of PFAS last time, we are also interested in how EPA is defining PFAS in its various programs (at the organic chemistry level), understanding that different EPA programs may define PFAS differently. Attached is a paper that provides additional detail on a description; MPART is currently evaluating this paper and determining its implications to the current working description.

Thanks!

Steve

From: Phelps, Lara <Phelps.Lara@epa.gov>
Sent: Monday, February 1, 2021 2:00 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>; Sliver, Steve (EGLE) <SLIVERS@michigan.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin

<mccabe.erin@epa.gov>

Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

Hi Lisa –

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Thanks!

Lara

Lara P. Phelps, Director

Center for Environmental Measurement and Modeling, Air Methods & Characterization Division

U. S. Environmental Protection Agency, Office of Research and Development

109 T.W. Alexander Drive (E343-04), Research Triangle Park, NC 27711

Office: 919-541-5544 | Cell: 984-287-0594 | Email: phelps.lara@epa.gov

“Protecting human health and the environment by delivering innovative measurement and modeling solutions to EPA and its partners.”

From: Matthews, Lisa <Matthews.Lisa@epa.gov>

Sent: Monday, February 01, 2021 11:59 AM

To: slivers@michigan.gov; Watkins, Tim <Watkins.Tim@epa.gov>; Phelps, Lara <Phelps.Lara@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>

Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>

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Good morning,

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- 6:2 FTS (fluorotelomer sulfonate) Screening Level for Air – *Mike Depa, Michigan EGLE, Air Quality Division's Toxics Unit*
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August 26, 2020

- Treating PFAS water contamination with cold plasma – *Curt Wolf, University of Michigan*

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March 23, 2020

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Thank you!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

US EPA Office of Research and Development

202-564-6669 (desk) | 202-577-4035 (cell)

matthews.lisa@epa.gov

Learn about EPA Research to support States at www.epa.gov/research-states.

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 2/16/2021 8:29:21 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: RE: ACTION/time sensitive - PFAS - is this accurate?

Yes, that is our current working definition for PFAS. I can get you the subgroups for the 31 cases when the lan is back up.

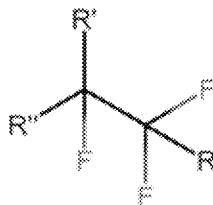
kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Tuesday, February 16, 2021 3:24 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: ACTION/time sensitive - PFAS - is this accurate?
Importance: High

PFAS Definition- [ICB]

- PFAS definition is a structure that contains the unit $R-CF_2CF(R')(R'')$ where R, R', and R'' do not equal "H" and both of these carbons are saturated carbons (e.g., no double bond).



- ICB Please add any info. and structures as needed to flesh out discussion on subcategories in particular the slide on PBT

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 2/22/2021 2:41:34 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)
Attachments: PFAS Naming Protocols

FYI. Not sure who you want to attend...

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

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Cc: Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

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Thanks, Laura

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Sent: Thursday, February 18, 2021 5:11 PM
To: Nazef, Laura <Nazef.Laura@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

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Your help is appreciated.

Thanks

Marc

Marc A. Mills, Ph.D.

**United States Environmental Protection Agency
Office of Research and Development**

26 W. Martin Luther King Dr.
Cincinnati, OH 45268

T. 513.569.7322
F. 513.569.7620
mills.marc@epa.gov

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Wednesday, 10 February, 2021 03:00 PM
To: Nazef, Laura <Nazef.Laura@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Mills, Marc <mills.marc@epa.gov>
Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Patlewicz, Grace <Patlewicz.Grace@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>
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Laura and Tony,
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Thank you,
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 - (iii) $\text{CF}_3 (\text{CF}_2)_n\text{-C(=O)-X}$, where X is any chemical moiety;

Cc: McCabe, Erin <mccabe.erin@epa.gov>

Subject: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Ann and Marc,

Hope all is well with both of you. ORD has been having regular calls with the Michigan PFAS Action Response Team (MPART) since last year to discuss PFAS destruction research.

Our next call is coming up on February 25 from 10-11 AM ET. One of the topics MPART would like EPA to cover is how EPA programs are defining PFAS (see below). Would you be able to talk about this on our call?

Thanks, and please let me know if you have any questions. We'll be working to finalize the call agenda by the middle of next week.

Lisa

From: Rodan, Bruce <rodan.bruce@epa.gov>

Sent: Tuesday, February 9, 2021 1:33 PM

To: Burden, Susan <Burden.Susan@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>

Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Lisa,

There have been some debates about defining PFAS – very minutia. Ann Richards in CCTE will know, and Marc Mills worked on a recent manuscript that we back and forth over the OECD definition.

Dr. Bruce Rodan

Associate Director for Science

EPA Office of Research and Development

From: Burden, Susan <Burden.Susan@epa.gov>

Sent: Tuesday, February 9, 2021 12:37 PM

To: Matthews, Lisa <Matthews.Lisa@epa.gov>

Cc: Rodan, Bruce <rodan.bruce@epa.gov>

Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Lisa,

Carlos Pachon is the lead in OLEM for the destruction and disposal guidance, so he would be the person to reach out to for the MPART call.

As far as EPA programs defining PFAS, I'm not aware of any EPA programs that have had to define PFAS "at the organic chemistry level" (i.e., not by CASRNs). I don't know that any of EPA's programs would have much to say about this issue at this point in time.

Thanks,

Susan

Susan Burden, Ph.D.

Scientific Support Advisor & ORD PFAS Executive Lead

Office of Science Advisor, Policy and Engagement

Office of Research and Development
US Environmental Protection Agency
Phone: (202) 564-6308 | (202) 740-0169
Email: burden.susan@epa.gov

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Tuesday, February 09, 2021 12:12 PM
To: Burden, Susan <Burden.Susan@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: FW: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Susan,
Is the interim destruction guidance from OLEM? Who is point person in OLEM for this issue that we could invite to join the call with MPART?

Also thoughts on how EPA programs are defining PFAS?

Thanks,
Lisa

From: Sliver, Steve (EGLE) <SLIVERS@michigan.gov>
Sent: Tuesday, February 9, 2021 7:51 AM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>; taylorj1@michigan.gov
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning Lisa,

In addition, would it be possible for someone from EPA to cover next steps with the interim destruction guidance, especially the request for additional field testing and implementation of the interim storage option?

Following up on Joy's presentation of our working description of PFAS last time, we are also interested in how EPA is defining PFAS in its various programs (at the organic chemistry level), understanding that different EPA programs may define PFAS differently. Attached is a paper that provides additional detail on a description; MPART is currently evaluating this paper and determining its implications to the current working description.

Thanks!

Steve

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Sent: Monday, February 1, 2021 2:00 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>; Sliver, Steve (EGLE) <SLIVERS@michigan.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
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Sent: 2/22/2021 4:16:30 PM
To: Nazef, Laura [Nazef.Laura@epa.gov]
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

FYI, I forwarded you email to Tracy. It is good to see we have the same response!

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Monday, February 22, 2021 10:39 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Anapolle, Kent <Anapolle.Kent@epa.gov>
Cc: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Thanks Tracy.

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
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To: Anapolle, Kent <Anapolle.Kent@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>
Cc: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Laura,

OPPT uses CAS systematic nomenclature conventions to name individual substances under TSCA. The 1000+ substances on the TSCA Inventory, for example, are named using CAS nomenclature. Please contact Kent Anapolle if you have any questions.

Tracy

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 9:42 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

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 - (iv) $\text{CF}_3 (\text{CF}_2)_m\text{-CH}_2\text{-X}$, where X is any chemical moiety; and
 - (v) $\text{CF}_3 (\text{CF}_2)_m\text{-Y-X}$, where Y = non-S, non-N heteroatom and where X is any chemical moiety.

Other offices may have additional information to share regarding PFAS definitions.

Best regards,
Laura

Laura Nazef
International Coordinator
Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
+1 (202) 564-7523
nazef.laura@epa.gov

From: Richard, Ann <Richard.Ann@epa.gov>
Sent: Wednesday, February 10, 2021 1:17 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>; Mills, Marc <mills.marc@epa.gov>
Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Nazef, Laura

Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

I and my colleagues (Tony Williams and Grace Patlewicz) have been involved in reviewing an OECD document on the topic of PFAS terminology, as well as responding to some queries from Laura Nazef (OCSPP) on PFAS definitions for other EU regulatory efforts. Tony has also had conversations with groups across EPA to develop an “encompassing” structural filter definition that we use on the CompTox Chemicals Dashboard to define our “PFAS Master List”. As you might guess, there is no single PFAS definition, but rather the chemical class tends to be defined to suit the needs (and concerns) of the various interested parties. Grace and I are happy to help however we can, but recommend that Tony and Laura might be the best persons to inform your discussions with MPART.

Ann

◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷ ◁ ▷

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Cc: McCabe, Erin <mccabe.erin@epa.gov>
Subject: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hope all is well with both of you. ORD has been having regular calls with the Michigan PFAS Action Response Team (MPART) since last year to discuss PFAS destruction research.

Our next call is coming up on February 25 from 10-11 AM ET. One of the topics MPART would like EPA to cover is how EPA programs are defining PFAS (see below). Would you be able to talk about this on our call?

Thanks, and please let me know if you have any questions. We'll be working to finalize the call agenda by the middle of next week.

Lisa

From: Rodan, Bruce <rodan.bruce@epa.gov>
Sent: Tuesday, February 9, 2021 1:33 PM
To: Burden, Susan <Burden.Susan@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

ED 006319A 00038526-00004

There have been some debates about defining PFAS – very minutia. Ann Richards in CCTE will know, and Marc Mills worked on a recent manuscript that we back and forth over the OECD definition.

Dr. Bruce Rodan
Associate Director for Science
EPA Office of Research and Development

From: Burden, Susan <Burden.Susan@epa.gov>
Sent: Tuesday, February 9, 2021 12:37 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Lisa,

Carlos Pachon is the lead in OLEM for the destruction and disposal guidance, so he would be the person to reach out to for the MPART call.

As far as EPA programs defining PFAS, I'm not aware of any EPA programs that have had to define PFAS "at the organic chemistry level" (i.e., not by CASRNs). I don't know that any of EPA's programs would have much to say about this issue at this point in time.

Thanks,

Susan

Susan Burden, Ph.D.
Scientific Support Advisor & ORD PFAS Executive Lead
Office of Science Advisor, Policy and Engagement
Office of Research and Development
US Environmental Protection Agency
Phone: (202) 564-6308 | (202) 740-0169
Email: burden.susan@epa.gov

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Tuesday, February 09, 2021 12:12 PM
To: Burden, Susan <Burden.Susan@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: FW: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Susan,
Is the interim destruction guidance from OLEM? Who is point person in OLEM for this issue that we could invite to join the call with MPART?

Also thoughts on how EPA programs are defining PFAS?

Thanks,
Lisa

From: Sliver, Steve (EGLE) <SLIVERS@michigan.gov>
Sent: Tuesday, February 9, 2021 7:51 AM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>; taylorj1@michigan.gov
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning Lisa,

In addition, would it be possible for someone from EPA to cover next steps with the interim destruction guidance, especially the request for additional field testing and implementation of the interim storage option?

Following up on Joy's presentation of our working description of PFAS last time, we are also interested in how EPA is defining PFAS in its various programs (at the organic chemistry level), understanding that different EPA programs may define PFAS differently. Attached is a paper that provides additional detail on a description; MPART is currently evaluating this paper and determining its implications to the current working description.

Thanks!

Steve

From: Phelps, Lara <Phelps.Lara@epa.gov>
Sent: Monday, February 1, 2021 2:00 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>; Sliver, Steve (EGLE) <SLIVERS@michigan.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

| |
|--|
| CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov |
|--|

Hi Lisa –

The two immediate things that come to mind to mention are the AWMA IT3 Paper presented last week - Combustion of C1 and C2 PFAS: Kinetic Modeling and Experiments; and Other Test Method (OTM) – 45, which we will be talking to the larger ECOS community the week before, if there were some additional follow-up.

Thanks!
Lara

Lara P. Phelps, Director

Center for Environmental Measurement and Modeling, Air Methods & Characterization Division
U. S. Environmental Protection Agency, Office of Research and Development
109 T.W. Alexander Drive (E343-04), Research Triangle Park, NC 27711
Office: 919-541-5544 | Cell: 984-287-0594 | Email: phelps.lara@epa.gov

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From: Matthews, Lisa <Matthews.Lisa@epa.gov>

Sent: Monday, February 01, 2021 11:59 AM

To: slivers@michigan.gov; Watkins, Tim <Watkins.Tim@epa.gov>; Phelps, Lara <Phelps.Lara@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>

Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>

Subject: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning,

We have our EPA ORD-MPART quarterly call on PFAS destruction research coming up on Thursday, February 25 from 10-11 AM ET.

Please send Erin McCabe and me your suggestions for agenda topics by **Monday, February 8** – including any new information to share with the group.

Agenda topics from past calls are listed below:

November 18, 2020

- MPART Working PFAS Description – *Joy Taylor Morgan, Michigan EGLE Air Quality Division's Toxics Unit*
- 6:2 FTS (fluorotelomer sulfonate) Screening Level for Air – *Mike Depa, Michigan EGLE, Air Quality Division's Toxics Unit*
- EPA ORD Research Updates – *Tim Watkins, Director, Center for Environmental Measurement and Modeling, EPA ORD*

August 26, 2020

- Treating PFAS water contamination with cold plasma – *Curt Wolf, University of Michigan*
- Thermal oxidizer design installed at the Chemours Fayetteville Works facility in NC – *Chun-Wai Lee and Bill Linak, EPA ORD*
- Australia cement kiln data for destruction of PFAS – *Chun-Wai Lee and Bill Linak, EPA ORD*
- Pilot scale testing on Rainbow Furnace – *Chun-Wai Lee and Bill Linak, EPA ORD*

June 25, 2020 follow-up call

- Participation in EPA's multi-lab study on a drinking water analytical method with isotope dilution (ultimately a DOD decision)
- Flexibility in drinking water analytical methods for residential wells
 - EPA will continue to only stand behind Methods 537 and 522, MPART can use other methods, but EPA can't comment on the validity of the data

May 28, 2020

- Bench-Scale Tests on Stabilization/Solidification of PFAS-Contaminated Soils and Biosolids – *Dan Cassidy, Western Michigan University*
- Update on EPA's PFAS Innovative Treatment Team – *Brian Gullett, EPA ORD*
- Managing PFAS in Spent Adsorption Media – *Craig Patterson, Tom Speth and Marc Mills, EPA ORD*

March 23, 2020

- ORD researchers discussed current and planned EPA PFAS research with the MPART. They are interested in EPA's PFAS destruction research and decontamination efforts, particularly for fire departments that have used AFFF. ORD provided overview of our PFAS thermal destruction research.

Thank you!

Lisa

Lisa Matthews

Senior Advisor and State Liaison
US EPA Office of Research and Development
202-564-6669 (desk) | 202-577-4035 (cell)
matthews.lisa@epa.gov

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Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 2/22/2021 6:26:43 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Butler, Tristan [Butler.Tristan@epa.gov]
Subject: For the meeting with ORD and MPART on Thursday
Attachments: PFAS from OCSPP meeting with MPART.pptx

I have had some emails with Tony Williams in RTP about the meeting on Thursday. We were thinking of presenting some basic information on the chemicals we consider PFAS. I put together a few slides based on our latest management update – hope that is OK. Not really sure what the meeting is about so I want to keep it brief. The TSCA inventory stats are optional at this point but I left them in there. I think ORD and us have 15 min to talk so maybe just slides 1-4.

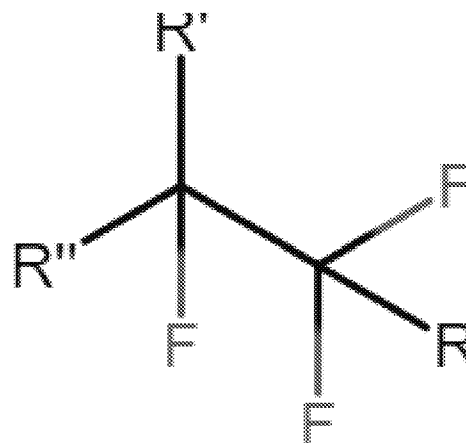
Thoughts?

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

PFAS “Working” Definition

- PFAS is a broad category and can include many different chemical substances; there is no universally accepted definition.
- For OPPT, we apply the following “working” definition when identifying PFAS on the TSCA inventory.
 - Structure that contains the unit $R-CF_2-CF(R')(R'')$ where R , R' , and R'' do not equal “H”
 - Carbon-carbon bond is saturated
 - Branching, heteroatoms, and cyclic structures are included

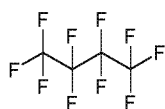


PFAS Substances on TSCA

- Includes
 - Discrete substances (class 1)
 - Class 2 mixtures
 - Polymers
 - Fluorine in the backbone
 - Fluorinated alkyl as a pendant group

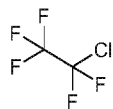
Perfluorocarbon chemicals

Examples of PFAS structures



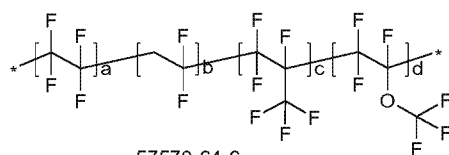
355-25-9

Halo Fluorocarbon (R, R' and/or R'' = halogen which is not fluorine)



76-15-3

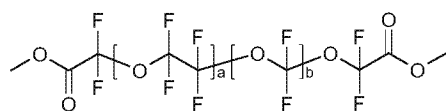
Fluoro polymer (for example, polymers made from tetrafluoroethene (C₂F₄), hexafluoropropene (C₃F₆) and/or halotrifluoroethene (C₂F₃halo))



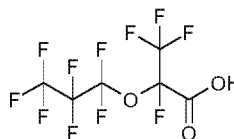
57570-64-6

Examples of PFAS structures

Perfluoro/polyfluoro ether

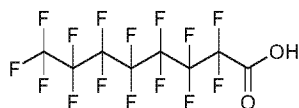


161075-12-3

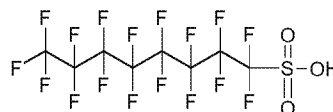


13252-13-6

Perfluoroalkyl-R (R = O, N, P, C (not CF₂), S, Si, H, or metal)

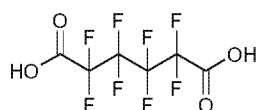


335-67-1



1763-23-1

R-Perfluoroalkyl-R (R = O, N, P, C (not CF₂), S, Si, H, or metal)



336-08-3



375-63-3

PFAS Statistics

- 1,344 PFAS currently on the TSCA Inventory (666 active)
 - This does not include environmental degradants, by-products, or impurities
- Approx. 700 Low Volume Exemptions granted
 - not listed on the Inventory

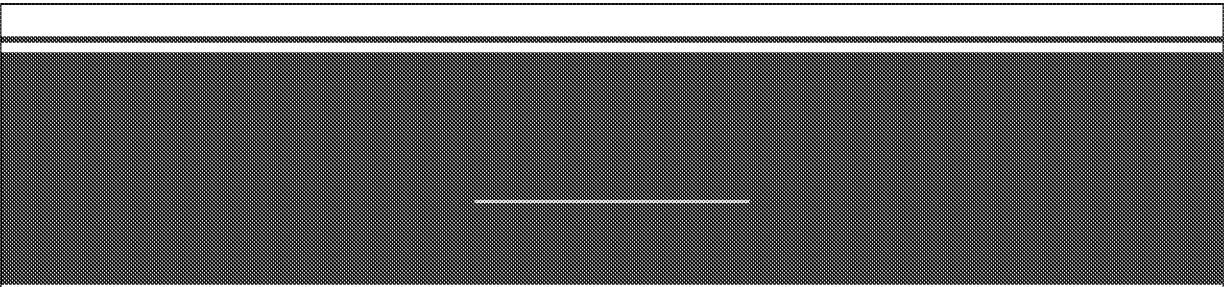


TABLE 1: TSCA INVENTORY PFAS NUMBERS

| CBI | | Non-CBI | | | | |
|----------|---------------------------------------|---------|---------------------------------------|------|---------------------------------------|-----|
| Total | 435 | 909 | | 1344 | | |
| | Original Inventory (grandfathered) | PMN | Original Inventory (grandfathered) | PMN | Original Inventory (grandfathered) | PMN |
| Total | 43 | 392 | 695 | 214 | 738 | 606 |
| Active | 1 | 254 | 289 | 122 | 290 | 376 |
| Inactive | 42 | 138 | 406 | 92 | 448 | 230 |

Table 2: PFAS by Carbon Chain Length

| | Active | Inactive | Totals |
|-------------|--------|----------|--------|
| >C8 | 97 | 211 | 308 |
| C7/C8 | 105 | 122 | 227 |
| C5/6 | 79 | 127 | 206 |
| C4 or C3/C4 | 154 | 87 | 241 |
| C2/3 | 73 | 29 | 102 |
| Mixed | 158 | 102 | 260 |
| Totals | 666 | 678 | 1344 |

- **Notes:**
- >C8: includes fluoropolymers and non-polymers with no range including 8 and below
- C7/8: this is because octanoic acid has 7 fluorinated carbons and octanesulfonic acid has 8 fluorinated carbons
- C5/6: similar issue as above
- C4 or C3/C4: mostly C4
- C2/3: this includes perfluoroethers and perfluoroether polymers as well as non-polymers
- Mixed: includes ranges of all kinds (e.g., 1-10, or 2-6 or 8-12)

| Table 3: PFAS Case Type by Inventory Flag/Regulatory Action | | | | |
|---|---------------------------------------|-----|---------------------------------------|-----|
| | Active | | Inactive | |
| | Original Inventory (grandfathered) | PMN | Original Inventory (grandfathered) | PMN |
| | x | 88 | x | 2 |
| S(e) Order + SNURs | x | 65 | x | 3 |
| | 150 | 46 | 268 | 53 |

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 2/22/2021 7:00:33 PM
To: Williams, Antony [Williams.Antony@epa.gov]
Subject: RE: Questions about next weeks presentation on PFAS
Attachments: PFAS from OCSP meeting with MPART.pptx

Here is what I am thinking – let me know if this is way off on your thoughts. I put this in to Tracy, but have not heard back from her yet. For the amount of time we have, I may just use slides 1-4.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 12:04 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Thanks Kathy...much appreciated. I will send you anything that I might prepare too based on what you send. I was thinking though primarily a live demo of PFAS on the dashboard.. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure
U.S. Environmental Protection Agency
109 T.W. Alexander Drive
Room D131I, Mail Drop D143-02
Research Triangle Park, NC 27711

Office Phone: 919-541-1033
Mobile Phone: Ex. 6 PP / Ex. 7(C)

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HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 11:40 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

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kathy

Dr. Kathy Schechter
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Comments below..

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Sent: Monday, February 22, 2021 11:10 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I am not sure!

Ex. 5 Deliberative Process (DP)

Beyond describing what we are using for our working definition of PFAS...

Ex. 5 Deliberative Process (DP)

ICB mostly sees chemicals that are manufacture or imported. Are these recurring meetings that have different discussions as interests arise?

Ex. 5 Deliberative Process (DP)

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From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Friday, February 19, 2021 12:33 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: Questions about next weeks presentation on PFAS

Hi both,

We are scheduled to be on the agenda next week presenting on PFAS to Michigan. I was wondering what you would be presenting on and hpw you think we should split the 15 minutes allocated to us? Thanks

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Sent: Thursday, February 11, 2021 1:34 PM

To: Phelps, Lara <Phelps.Lara@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>; Pachon, Carlos <Pachon.Carlos@epa.gov>

Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>

Subject: draft agenda EPA-MPART Call on Feb 25

Hi All,

Attached is the draft agenda for our quarterly call with the Michigan PFAS Action Response Team on Feb. 25.

Please send [Erin McCabe](#) and me any changes or missing agenda topic descriptions by **COB Tuesday, February 16**.

Thank you for your participation in this call!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

US EPA Office of Research and Development

202-564-6669 (desk) | [Ex. 6 PP / Ex. 7\(C\)](#)

matthews.lisa@epa.gov

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Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 2/23/2021 6:30:04 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Butler, Tristan [Butler.Tristan@epa.gov]
Subject: FW: Questions about next weeks presentation on PFAS
Attachments: PFAS_Michigan.pptx

Here is what Tony was going to present. I think they just wanted ICB to present our working definition as kind of a lead in to his work. Should we just attend as observers then without slides? If so, would it be OK to answer definition questions?

Not sure what the dos and don'ts are for this....

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
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Sent: Monday, February 22, 2021 10:39 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I might circulate these slides after the presentation but will focus on the lists on the day based on the amount of time left over for me to present. Cheers

Antony J. Williams
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109 T.W. Alexander Drive
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From: Matthews, Lisa <Matthews.Lisa@epa.gov>

Sent: Thursday, February 11, 2021 1:34 PM

To: Phelps, Lara <Phelps.Lara@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>; Pachon, Carlos <Pachon.Carlos@epa.gov>

Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>;

Burden, Susan <Burden.Susan@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>

Subject: draft agenda EPA-MPART Call on Feb 25

Hi All,

Attached is the draft agenda for our quarterly call with the Michigan PFAS Action Response Team on Feb. 25.

Please send [Erin McCabe](mailto:mccabe.erin@epa.gov) and me any changes or missing agenda topic descriptions by **COB Tuesday, February 16**.

Thank you for your participation in this call!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

US EPA Office of Research and Development

202-564-6669 (desk) | 202-577-4035 (cell)

matthews.lisa@epa.gov

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Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 1/28/2020 4:43:13 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: FW: Per and Poly fluorinated

Comments?

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Odusote, Gloria <odusote.gloria@epa.gov>
Sent: Tuesday, January 28, 2020 11:28 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Simmons, Nicole (Lindsay) <Simmons.Nicole@epa.gov>
Subject: Per and Poly fluorinated

Hi Kathy,

Ex. 5 Deliberative Process (DP)

Best,
Gloria

Gloria Odusote
Waste and Chemical Enforcement Division
WJC South 1200 Pennsylvania Ave. NW
Room 4108A, Mail Code 2249A
Washington, DC 20460
202 564-1845

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 3/10/2020 12:28:03 PM
To: Krasnic, Toni [krasnic.toni@epa.gov]
CC: Lloyd, Tyler [Lloyd.Tyler@epa.gov]
Subject: RE: 8(a) PFAS Data Call

Thanks Toni. I always appreciate your thoughts!

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Krasnic, Toni <krasnic.toni@epa.gov>
Sent: Tuesday, March 10, 2020 8:17 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Lloyd, Tyler <Lloyd.Tyler@epa.gov>
Subject: RE: 8(a) PFAS Data Call

+ Tyler (who'll be covering PFAS while I'm on a 4-month detail to OMS, effective 3/15/20)

Hi Kathy,

We'll need guidance from management on the scope of PFAS we want covered – all PFAS or just long-chain PFAS. If long-chain PFAS, we should use a simpler definition than what we have in the SNUR. If all PFAS, we can use the definition that ICB developed for the Inventory search.

Thanks,

Toni Krasnic
Existing Chemicals Branch
EPA/OCSPP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, March 09, 2020 9:55 AM
To: Krasnic, Toni <krasnic.toni@epa.gov>
Subject: 8(a) PFAS Data Call

Hi Toni. A group of folks met last week to start the discussions for the 8(a) PFAS data call. Dan Bushman was also there. One item they discussed was getting a PFAS definition. I was not willing to make that call, of course, but it got me thinking that we need to have some managers/lawyers/other experts help with making that decision. I know that any of us can come up with something, but I want to make sure that we get data back on something useful! Just wanted your thoughts since I know that you were in on a lot of PFAS work in the past...

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 3/17/2020 4:10:44 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: FW: PFAS 8(a) Rule - Check-in

FYI, Hannah et al still wants ICB to help with the definition of the PFAS reportable substances.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679



From: Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>
Sent: Tuesday, March 17, 2020 11:23 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Tyree, JamesN <tyree.jamesn@epa.gov>
Subject: PFAS 8(a) Rule - Check-in

Hello Kathy,

I just wanted to check-in with you to see if you will be able to provide an initial outline of the scope options for the PFAS rule on Wednesday. Ideally I would like to share anything that you have worked on before the meeting, so everyone has a chance to review and ask questions. Please let James and I know if this request cannot be achieved.

Thank you,

Hannah Blaufuss, MHS
Environmental Protection Specialist
U.S. EPA Office of Pollution Prevention and Toxics
Chemical Control Division
Phone: (202) 564-5614

 Please do not print this email unless absolutely necessary 

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 3/12/2020 8:07:03 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Christian, Myrta [Christian.Myrta@epa.gov]
Subject: FW: Tyree, JamesN shared the folder "PFAS 8(a) Rulemaking" with you.

FYI, here is the folder for the PFAS rulemaking; not sure if you have access, but here it is. In the folder was the NPRM document that James Tyree was putting together where there is a section on the scope of chemicals to be covered. There were possible options of a discrete list (which I do not see as possible since a lot of these chemicals will be CBI or may not have CAS numbers since it includes LVEs and byproducts) or some other definition/description. I sent an email to Toni Krasnic just to get his thoughts and found out that he is going on a 4 month detail! His response is:

"We'll need guidance from management on the scope of PFAS we want covered – all PFAS or just long-chain PFAS. If long-chain PFAS, we should use a simpler definition than what we have in the SNUR. If all PFAS, we can use the definition that ICB developed for the Inventory search."


It looks like the group is looking to ICB to answer these questions.

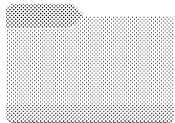
Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Tyree, JamesN <tyree.jamesn@epa.gov>
Sent: Wednesday, March 04, 2020 3:48 PM
To: Sadowsky, Don <Sadowsky.Don@epa.gov>; Schwarz, Stephanie <Schwarz.Stephanie@epa.gov>; Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>; Smith, ThomasA <smith.thomasa@epa.gov>; Passe, Loraine <Passe.Loraine@epa.gov>; Gorder, Chris <Gorder.Chris@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Cybulski, Walter <Cybulski.Walter@epa.gov>; Callahan, Leigh <Callahan.Leigh@epa.gov>; Nguyen, Nhan <Nguyen.Nhan@epa.gov>
Subject: Tyree, JamesN shared the folder "PFAS 8(a) Rulemaking" with you.

Tyree, JamesN shared the folder "PFAS 8(a) Rulemaking" with you.

 This link only works for the direct recipients of this message.



PFAS 8(a) Rulemaking

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Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 3/23/2020 8:37:12 PM
To: Blaufuss, Hannah [Blaufuss.Hannah@epa.gov]; Tyree, JamesN [tyree.jamesn@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Ballard, Darryl [Ballard.Darryl@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Nguyen, Nhan [Nguyen.Nhan@epa.gov]; Sadowsky, Don [Sadowsky.Don@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]
CC: Passe, Loraine [Passe.Loraine@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]
Subject: RE: 8(a) PFAS Data Call Workgroup - Agenda
Attachments: PFAS definition for data call.docx

Here are some thoughts for now

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Blaufuss, Hannah <Blaufuss.Hannah@epa.gov>
Sent: Monday, March 23, 2020 4:32 PM
To: Tyree, JamesN <tyree.jamesn@epa.gov>; Smith, ThomasA <smith.thomasa@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Callahan, Leigh <Callahan.Leigh@epa.gov>; Ballard, Darryl <Ballard.Darryl@epa.gov>; Gorder, Chris <Gorder.Chris@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Nguyen, Nhan <Nguyen.Nhan@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Schwarz, Stephanie <Schwarz.Stephanie@epa.gov>; Cybulski, Walter <Cybulski.Walter@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Sharkey, Susan <Sharkey.Susan@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>
Subject: 8(a) PFAS Data Call Workgroup - Agenda

Hello OPPT PFAS Workgroup,

The proposed agenda for the workgroup meeting this week is as follows:

1. PFAS scope (Kathy)
2. 8(a) applicability (Don)
3. Comments from NPRM review (All Workgroup)

We have not seen many comments on the NPRM, so please do so by Wednesday's meeting.

Thank you,

Hannah Blaufuss

Environmental Protection Specialist
U.S. EPA Office of Pollution Prevention and Toxics
Chemical Control Division
Phone: (202) 564-5614

For information on COVID-19 visit the [CDC](#)

PFAS chemicals that EPA has seen through the new chemicals program are wide and varied - They come in all shapes and sizes. In order to assist the workgroup on defining the scope of chemicals for which the data call is necessary, the following summary is developed.

Ex. 5 Deliberative Process (DP)

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 4/1/2020 7:48:11 PM
To: Kathryn Schechter [Schechter.Kathryn@epa.gov]
Subject: PFAS data call

The PFAS data call workgroup wants ICB to work with ORD on the definition or list of substances. Below is a link to the scoping document.

Ex. 6 Personal Privacy (PP)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 4/1/2020 8:11:57 PM
To: Christian, Myrta [Christian.Myrta@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: RE: PFAS data call

Access granted.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Christian, Myrta <Christian.Myrta@epa.gov>
Sent: Wednesday, April 01, 2020 4:11 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS data call

Got it! Thanks!

Myrta

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 1, 2020 4:09 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Christian, Myrta <Christian.Myrta@epa.gov>
Subject: RE: PFAS data call

He actually emailed right back. Not the same as giving access, but.. The scoping document has a lot of interesting comments from ORD. This will not be an easy exercise.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Wednesday, April 01, 2020 4:07 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Christian, Myrta <Christian.Myrta@epa.gov>
Subject: RE: PFAS data call

Thanks. I won't mind if it takes some time. 😊

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 1, 2020 4:05 PM
To: Christian, Myrta <Christian.Myrta@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS data call

I sent an email to James to get you both access. Let's see how quick he responds!!!

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Christian, Myrta <Christian.Myrta@epa.gov>
Sent: Wednesday, April 01, 2020 4:05 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS data call

Hi Kathy,

Yes, I would like to get access.

Thank you,

Myrta

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Wednesday, April 1, 2020 3:51 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Christian, Myrta <Christian.Myrta@epa.gov>
Subject: FW: PFAS data call

The PFAS data call workgroup wants ICB to work with ORD on the definition or list of substances. Below is a link to the scoping document with its comments.

Ex. 6 Personal Privacy (PP)

They want input in the next week. Let me know if you cannot access the folder. I mentioned Tracy, but forgot to mention Myrta. Myrta, do you want access?

Kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

Message

From: Schechter, Kathryn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=01463F1326694474BD56343BFAC423D7-SCHECHTER, KATHRYN]
Sent: 4/6/2020 5:06:29 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]; Christian, Myrta [Christian.Myrta@epa.gov]
Subject: PFAS scoping document
Attachments: Attach2_PFAS scope_workingcopy.docx

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

Appointment

[illegible]

Cancelling the 10/5 meeting. Be on the lookout for an email update from Alie.

Putting standing weekly meetings on the calendar; we'll cancel if there's no need for a meeting.

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To: Shortt, Veronica [Shortt.Veronica@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Holsinger, Hannah [Holsinger.Hannah@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]

CC: Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]

Subject: Canceled: 8(a) PFAS Data Call Workgroup Meeting

Start: 12/8/2021 7:00:00 PM
End: 12/8/2021 8:00:00 PM
Show Time As: Free

Importance: High

Recurrence: (none)

Required Attendees: Shortt, Veronica; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Holsinger, Hannah; Barkas, Jessica; Milton, Philip; Franklyn, Valarie

Optional Attendees: Hummel, Natalie; Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon

Nothing for discussion; cancelling the 12/8 meeting. A few updates to share:

- Some of you may already be aware, but last night the House passed a compromise NDAA that does not include any language to update TSCA 8(a)(7) – i.e., no requirements to update the definition of PFAS for this rule. (Explanatory document: <https://rules.house.gov/sites/democrats.rules.house.gov/files/1751605-RCP117-21-JES.pdf#page=651>). It still needs to pass the Senate, but given this was negotiated between both houses, it seems reasonable to expect it to pass.
- A reminder to continue to review the comment topics outline & comment excerpts in CommentCAT, but please do not make any updates within CommentCAT; ERG has begun their initial comment summaries. If you do have comments on where something's been assigned, please let me know.
 - ERG has begun preparing comment summaries for the priority topics we discussed last week: data elements, reporting exemptions, reporting period start/duration, and including processors in the reporting universe. They'll provide those summaries soon, and we can start discussing both the summaries and EPA's response.

Putting standing weekly meetings on the calendar; we'll cancel if there's no need for a meeting.

Moving the meeting series to my calendar.

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Appointment


To: Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]

CC: Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Stanley, Cora [stanley.cora@epa.gov]

Start: 2/9/2022 7:00:00 PM
End: 2/9/2022 8:00:00 PM

Recurrence: (none)

2/9 meeting agenda:

- Updates on topics discussed last week:
 - Confirming we will not cover processors in this rule
 - Definition of PFAS – continuing to meet with other offices to confirm whether the proposed definition excludes any substances of interest (i.e., likely to be of concern to human health or the environment). So far, OAR doesn't see an issue with our proposed definition.
 - All comment topics have now been summarized and are in Teams
- Reminders:
 - Please continue to review the comment summaries and provide thoughts on comments as needed in Teams
 - For everyone in the workgroup—please provide any feedback on the proposed PFAS definition, especially with respect to substances of interest which may be out of scope
 - Provide any details related to the benefits of the rule to different programs/offices/activities to Leigh – the more specificity (e.g., which data elements exactly will be of use), the better
- Continue discussion on possible reporting thresholds:  [Options Selection list 1-5-22.docx](#)

Putting standing weekly meetings on the calendar; we'll cancel if there's no need for a meeting.

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To: Lan, Alexis [lan.alexis@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]

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Start: 3/2/2022 7:00:00 PM
End: 3/2/2022 8:00:00 PM

Recurrence: (none)

3/2 Agenda:

1. Continued discussion on the scope of covered PFAS, following feedback from different offices. Possible solutions:

- a.
- b. **Ex. 5 Deliberative Process (DP)**
- c. Others?

2. Continue to review public comments related to a reporting threshold and certain exemptions (general comments, de minimis, byproducts, impurities, and R&D substances). Please continue marking up the  Options Selection file with considerations (including pros/cons) that should be captured for senior management during options selection.
 - a. If possible, let's aim for getting all workgroup considerations & straw polls for the options related to reporting threshold & reporting exemptions by the end of next week's meeting.

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Start: 3/23/2022 6:00:00 PM
End: 3/23/2022 7:00:00 PM

Recurrence: (none)

3/23 meeting agenda

1. SBAR Panel updates? (Cora)
2. Following up on PFAS scope/definition
 - a. Any updates or thoughts on the potential additions file?
 - b.

Ex. 5 Deliberative Process (DP)
3. Following up on tiered/staggered reporting comments & options to put forward
 - a. Note—edit to the comment summary since last meeting
4. If time- begin discussion on including articles (in general; not just imported articles)
 - a. Comment summary

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Start: 3/30/2022 6:00:00 PM

End: 3/30/2022 7:00:00 PM

Recurrence: (none)

3/30 agenda:

1. SBAR Panel updates?
2. Other updates – see outline of final rule FRN in Teams. Any theme or topics missing from the outline?
- 3.

Ex. 5 Deliberative Process (DP)

4. Any other updates to the discussion on Staggered/Tiered Reporting options?
 - a. See summary of public comments and considerations for different options
5. Begin discussion on comments related to the inclusion of articles in general (see 5e in the RTC files). There are a few questions for the workgroup in the comments of the summary.

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Start: 4/6/2022 6:00:00 PM


End: 4/6/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Lan, Alexis; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

4/6 meeting agenda:

- SBAR Panel updates?
- Other updates:
 - Met with Michal yesterday to go over options related to reporting threshold and certain reporting exemptions (de minimis, impurities, byproducts, and R&D substances)
 - Thanks to those who've reviewed the FRN outline! I'll start adding information to the background section
 - PFAS definition: received feedback from Tala last week on viable rationales for modifying the proposed definition. It may be in the workgroup's best interest to move this discussion to a separate standing meeting among the workgroup members with equities and/or interest in this outcome until we've figured out the scope for the final rule. – if this works for others, I'd like to send an invite for a Tuesday or Thursday meeting on this topic
- Next RTCs to discuss (before end of April): tiered reporting; articles/article importers; small business exemptions
 - Workgroup poll on tiered reporting options—aim for next week if the workgroup isn't ready to vote today?
 - Begin discussion on public comments on including articles (generally) – see questions for the workgroup within the comment summary of the RTC file [05e Including Articles \(General\) comment-response-document.docx](#)

- If time, start reviewing comments related to article importers specifically  [05eii Article Importers comment-response-document.docx](#)

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Start: 4/21/2022 5:00:00 PM

End: 4/21/2022 6:00:00 PM


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Optional Attendees: Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon; Hummel, Natalie; Stanley, Cora; Masten, Bethany; Welbourn, Brandon

4/21 Meeting Agenda:

- SBAR Panel updates & recap of Panel Outreach Meeting
- Other announcements/updates:
 - PFAS definition?
 - ERG contract for document support: RTCs & compliance determination
- Workgroup discussion – see RTC files &  [draft options slides](#):
 - Continue review of article/article importer comments & options
 - Start review of small manufacturer assistance comments & options
 - **Goal: poll workgroup preferences during next week's meeting on articles and small manufacturer assistance options**

One-time rescheduling due to SBAR Panel Meeting conflict on April 20.

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Start: 4/13/2022 6:00:00 PM
End: 4/13/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

4/13 meeting agenda:

- SBAR Panel updates?
- Other announcements/updates:
 - Any updates from NCD on the PFAS definition inquiry, ahead of tomorrow's check-in?
 - Hoping to move forward on comment/RTCs and options discussions more quickly – aiming to discuss comments/options related to article importers and small businesses by end of month
 - Last comment topics/options to address: joint submissions, data elements (including env/health effects data) → anything else?
- Workgroup poll: tiered reporting options (draft slides  [here](#))
- Continue last week's discussion on articles, including these 3 questions from the RTC document  [05e Including Articles \(General\) comment-response-document.docx](#):
 - With respect to concerns over duplicative information for re-imports: Are there any other reporting rules that distinguish initial imports from re-imports?
 - In response to commenter suggestion that EPA exempt certain articles that have less exposure potential: Does EPA have enough information to support exempting some types of articles but not others?
 - Any other thoughts on responses to comments for this topic, which aren't already captured?
- Start article importers discussion  [05eii Article Importers comment-response-document.docx](#)
 - Many similar comments as above (articles, generally), but a few questions have been flagged in the summary for the workgroup

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Start: 6/15/2022 6:00:00 PM
End: 6/15/2022 7:00:00 PM

Recurrence: (none)

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6/15 meeting agenda

- SBAR Panel updates
- Other announcements/updates
 - Outcomes of the 2 OS briefings with the AA
 - Follow-up WG discussions needed related to potential burdens of different options for the PFAS definition, and possible ways to carve out exemptions for certain waste management facilities, if viable
- Next steps:
 - Steph working to upload the draft RTCs into the ERG Comment Cat tool. ERG will return a full first draft of the RTC for workgroup review.
 - Concurrently working on final Panel report and IRFA.
 - WG should continue working on the FRN using input from OS briefings.
 - Steph will also provide an outline of future compliance guidance/reporting instructions to start and will circulate among the WG for input, using CDR 2020 instructions as template (with comments noting where edits or new sections are needed). ERG will be able to start formatting a first draft with an initial outline.

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To: Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]




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Start: 7/20/2022 6:00:00 PM
End: 7/20/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

7/20 meeting agenda:

- SBAR Panel updates?
- Updates on certain waste management exemptions?
- Note on the final rule/preamble:  [Final Rule Outline 3-23-22.docx](#) Thanks all for reviewing the draft so far! I started drafting the final rule text in the preamble draft document. Items to flag that need attention/follow-up:
 - The preamble discussion on the PFAS definition (ie, justification under 8a5)
 - Preamble & reg text discussion on CBI/joint submissions
 - How to incorporate the streamlined reporting form options in the reg text (see questions for the WG in comments)
- Note on the RTC: the first draft of the RTC document is on Teams:  [PFAS Data Call RTC Document 7 14 22 SG edits.docx](#) ("Public Comments" folder)
 - We'll need to revisit some of the draft responses to a few topics, like the PFAS definition and certain exemptions. But this is a great first draft – take a look at how much the WG has done so far in summarizing the comments and drafting responses!
 - I think it'll be cleaner to review and edit any comment responses in just one document than multiple, so for now, we'll hold off on populating the RTC discussion in the final rule preamble and simply add that down the road as we finalize the responses.
- WG discussion: see initial questions for EPA from ERG as they're compiling reporting instructions/guidance for the rule.  [Compliance Guidance Document Questions for EPA.docx](#) (also in Teams: "Instructions & Guidance" folder)
 - I highlighted the questions they posed that I couldn't answer at the time/wanted to bring up to the WG. My responses/questions to the WG are in red.
 - The following items will be helpful to discuss with the WG: logistical questions on reporting chem ID/molecular structure; requirements related to byproducts and worker exposure data; how to respond when a manufacturer knows some of the info but not all (eg, some downstream use info is NKRA)?

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Attachments: PFAS 8a7 Workgroup: 8/17 Meeting Discussion



Start: 8/17/2022 6:00:00 PM
End: 8/17/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Lan, Alexis; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

Optional Attendees: Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon; Hummel, Natalie; Masten, Bethany; Welbourn, Brandon; Pickell, Casey; Pisarick, Marissa; Holleran, Anne

8/17 Meeting Agenda:

- Updates & check-ins
 - NODA/IRFA package review status?
 - CBI approach discussion (still on track to resolve by 8/19?)
 - CompTox development of PFAS list?
 - Approach to reporting mixtures, polymers, and UVCBs: OPPT members suggest using CDR approach for mixtures, and reporting UVCB & polymers as single substances, with ability/option to provide more info on composition of UVCB & polymer if known at time of manufacture. Does this work for others in the WG?
 -  Preamble &  RTC discussion of PFAS structure definition – reminder to continue reviewing by 8/19. Are additional sources/references still needed? (See also: my comments in preamble & RTC on rationale related to TFA)
 - Anything else?
- Certain waste management site exemption – see 8/16 email (attached)
 - WG input on how to define exemption
 - Additional perspective/technical rationale for those byproducts' exemption (maybe 8a5A, 'unnecessary')?

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Start: 8/24/2022 6:00:00 PM
End: 8/24/2022 7:00:00 PM

Recurrence: (none)

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Optional Attendees: Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon; Hummel, Natalie; Stanley, Cora; Masten, Bethany; Welbourn, Brandon; Pickell, Casey; Pizarick, Marissa; Holleran, Anne

8/24 meeting agenda

- Status of remaining items for rule direction:
 - CBI issues
 - Joint submission approaches: requirement vs option? How to address article importers?
 - Discussion of PFAS definition in preamble & RTC: any concerns? Additional sources/cites needed?
- Any other items?

Ex. 5 Deliberative Process (DP)

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Sent: 4/28/2021 1:24:56 PM
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Subject: 8(a) PFAS Data Call Workgroup Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment
Location: Microsoft Teams Meeting
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End: 4/28/2021 7:00:00 PM
Show Time As: Busy
Recurrence: Weekly
every Wednesday from 2:00 PM to 3:00 PM
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Start: 2/9/2022 7:00:00 PM
End: 2/9/2022 8:00:00 PM

Recurrence: (none)

2/9 meeting agenda:

- Updates on topics discussed last week:
 - Confirming we will not cover processors in this rule
 - Definition of PFAS – continuing to meet with other offices to confirm whether the proposed definition excludes any substances of interest (i.e., likely to be of concern to human health or the environment). So far, OAR doesn't see an issue with our proposed definition.
 - All comment topics have now been summarized and are in Teams
- Reminders:
 - Please continue to review the comment summaries and provide thoughts on comments as needed in Teams
 - For everyone in the workgroup—please provide any feedback on the proposed PFAS definition, especially with respect to substances of interest which may be out of scope
 - Provide any details related to the benefits of the rule to different programs/offices/activities to Leigh – the more specificity (e.g., which data elements exactly will be of use), the better
- Continue discussion on possible reporting thresholds:  [Options Selection list 1-5-22.docx](#)

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Start: 3/2/2022 7:00:00 PM
End: 3/2/2022 8:00:00 PM

Recurrence: (none)

3/2 Agenda:

1. Continued discussion on the scope of covered PFAS, following feedback from different offices. Possible solutions:

Ex. 5 Deliberative Process (DP)

- c. Others?
2. Continue to review public comments related to a reporting threshold and certain exemptions (general comments, de minimis, byproducts, impurities, and R&D substances). Please continue marking up the  Options Selection file with considerations (including pros/cons) that should be captured for senior management during options selection.
 - a. If possible, let's aim for getting all workgroup considerations & straw polls for the options related to reporting threshold & reporting exemptions by the end of next week's meeting.

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Start: 3/2/2022 7:00:00 PM
End: 3/2/2022 8:00:00 PM

Recurrence: (none)

3/2 Agenda:

1. Continued discussion on the scope of covered PFAS, following feedback from different offices. Possible solutions:

Ex. 5 Deliberative Process (DP)

2. Continue to review public comments related to a reporting threshold and certain exemptions (general comments, de minimis, byproducts, impurities, and R&D substances). Please continue marking up the  Options Selection file with considerations (including pros/cons) that should be captured for senior management during options selection.
 - a. If possible, let's aim for getting all workgroup considerations & straw polls for the options related to reporting threshold & reporting exemptions by the end of next week's meeting.

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Sent: 4/28/2021 1:24:56 PM
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Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment
Location: Microsoft Teams Meeting
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End: 4/28/2021 7:00:00 PM
Show Time As: Busy
Recurrence: Weekly
every Wednesday from 2:00 PM to 3:00 PM
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Start: 3/23/2022 6:00:00 PM
End: 3/23/2022 7:00:00 PM

Recurrence: (none)

3/23 meeting agenda

1. SBAR Panel updates? (Cora)
2. Following up on PFAS scope/definition
 - a. Any updates or thoughts on the potential additions file?
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Start: 3/23/2022 6:00:00 PM
End: 3/23/2022 7:00:00 PM

Recurrence: (none)

3/23 meeting agenda

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Start: 3/30/2022 6:00:00 PM

End: 3/30/2022 7:00:00 PM

Recurrence: (none)

3/30 agenda:

1. SBAR Panel updates?
2. Other updates – see [outline](#) of final rule FRN in Teams. Any theme or topics missing from the outline?
3. PFAS Definition – see below reminder on options to review and provide input

Ex. 5 Deliberative Process (DP)

4. Any other updates to the discussion on Staggered/Tiered Reporting options?
 - a. See summary of public [comments](#) and considerations for different [options](#)
5. Begin discussion on comments related to the inclusion of articles in general ([see](#) [5e](#) in the RTC files). There are a few questions for the workgroup in the comments of the summary.

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To: Lan, Alexis [lan.alexis@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]

CC: Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Stanley, Cora [Stanley.Cora@epa.gov]; Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Stanley, Cora [Stanley.Cora@epa.gov]


Start: 4/6/2022 6:00:00 PM
End: 4/6/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Lan, Alexis; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

4/6 meeting agenda:

- SBAR Panel updates?
- Other updates:
 - Met with Michal yesterday to go over options related to reporting threshold and certain reporting exemptions (de minimis, impurities, byproducts, and R&D substances)
 - Thanks to those who've reviewed the FRN outline! I'll start adding information to the background section
 - PFAS definition: received feedback from Tala last week on viable rationales for modifying the proposed definition. It may be in the workgroup's best interest to move this discussion to a separate standing meeting among the workgroup members with equities and/or interest in this outcome until we've figured out the scope for the final rule. – if this works for others, I'd like to send an invite for a Tuesday or Thursday meeting on this topic
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 - Workgroup poll on tiered reporting options—aim for next week if the workgroup isn't ready to vote today?
 - Begin discussion on public comments on including articles (generally) – see questions for the workgroup within the comment summary of the RTC file [05e Including Articles \(General\) comment-response-document.docx](#)

- If time, start reviewing comments related to article importers specifically  [05eii Article Importers comment-response-document.docx](#)

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From: Griffin, Stephanie [griffin.stephanie@epa.gov]
Sent: 4/28/2021 1:24:56 PM
To: Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]
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Subject: 8(a) PFAS Data Call Workgroup Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment
Location: Microsoft Teams Meeting
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Show Time As: Busy
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Location: Microsoft Teams Meeting
Start: 4/28/2021 6:00:00 PM
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Show Time As: Busy

Recurrence: Weekly
every Wednesday from 2:00 PM to 3:00 PM

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Start: 4/13/2022 6:00:00 PM
End: 4/13/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

4/13 meeting agenda:

- SBAR Panel updates?
- Other announcements/updates:
 - Any updates from NCD on the PFAS definition inquiry, ahead of tomorrow's check-in?
 - Hoping to move forward on comment/RTCs and options discussions more quickly – aiming to discuss comments/options related to article importers and small businesses by end of month
 - Last comment topics/options to address: joint submissions, data elements (including env/health effects data) → anything else?
- Workgroup poll: tiered reporting options (draft slides  [here](#))
- Continue last week's discussion on articles, including these 3 questions from the RTC document  [05e Including Articles \(General\) comment-response-document.docx](#):
 - With respect to concerns over duplicative information for re-imports: Are there any other reporting rules that distinguish initial imports from re-imports?
 - In response to commenter suggestion that EPA exempt certain articles that have less exposure potential: Does EPA have enough information to support exempting some types of articles but not others?
 - Any other thoughts on responses to comments for this topic, which aren't already captured?
- Start article importers discussion  [05eii Article Importers comment-response-document.docx](#)
 - Many similar comments as above (articles, generally), but a few questions have been flagged in the summary for the workgroup

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Start: 6/15/2022 6:00:00 PM
End: 6/15/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

6/15 meeting agenda

- SBAR Panel updates
- Other announcements/updates
 - Outcomes of the 2 OS briefings with the AA
 - Follow-up WG discussions needed related to potential burdens of different options for the PFAS definition, and possible ways to carve out exemptions for certain waste management facilities, if viable
- Next steps:
 - Steph working to upload the draft RTCs into the ERG Comment Cat tool. ERG will return a full first draft of the RTC for workgroup review.
 - Concurrently working on final Panel report and IRFA.
 - WG should continue working on the FRN using input from OS briefings.
 - Steph will also provide an outline of future compliance guidance/reporting instructions to start and will circulate among the WG for input, using CDR 2020 instructions as template (with comments noting where edits or new sections are needed). ERG will be able to start formatting a first draft with an initial outline.

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Appointment

To: Foster, Stiven [Foster.Stiven@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]

CC: Fisher, Bethany [fisher.bethany@epa.gov]; Stanley, Cora [stanley.cora@epa.gov]; Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Masten, Bethany [Masten.Bethany@epa.gov]; Welbourn, Brandon [Welbourn.Brandon@epa.gov]; Pickell, Casey [pickell.casey@epa.gov]; Pisarick, Marissa [pisarick.marissa@epa.gov]; Holleran, Anne [Holleran.Anne@epa.gov]

Attachments: PFAS 8a7 Workgroup: 8/17 Meeting Discussion



Start: 8/17/2022 6:00:00 PM
End: 8/17/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Lan, Alexis; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

Optional Attendees: Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon; Hummel, Natalie; Masten, Bethany; Welbourn, Brandon; Pickell, Casey; Pisarick, Marissa; Holleran, Anne

8/17 Meeting Agenda:

- Updates & check-ins
 - NODA/IRFA package review status?
 - CBI approach discussion (still on track to resolve by 8/19?)
 - CompTox development of PFAS list?
 - Approach to reporting mixtures, polymers, and UVCBs: OPPT members suggest using CDR approach for mixtures, and reporting UVCB & polymers as single substances, with ability/option to provide more info on composition of UVCB & polymer if known at time of manufacture. Does this work for others in the WG?
 -  Preamble &  RTC discussion of PFAS structure definition – reminder to continue reviewing by 8/19. Are additional sources/references still needed? (See also: my comments in preamble & RTC on rationale related to TFA)
 - Anything else?
- Certain waste management site exemption – see 8/16 email (attached)
 - WG input on how to define exemption
 - Additional perspective/technical rationale for those byproducts' exemption (maybe 8a5A, 'unnecessary')?

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Appointment

To: Foster, Stiven [Foster.Stiven@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasA@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]

CC: Fisher, Bethany [fisher.bethany@epa.gov]; Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Stanley, Cora [stanley.cora@epa.gov]; Masten, Bethany [Masten.Bethany@epa.gov]; Welbourn, Brandon [Welbourn.Brandon@epa.gov]; Pickell, Casey [pickell.casey@epa.gov]; Pizarick, Marissa [pizarick.marissa@epa.gov]; Holleran, Anne [Holleran.Anne@epa.gov]

Start: 8/24/2022 6:00:00 PM
End: 8/24/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

Optional Attendees: Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon; Hummel, Natalie; Stanley, Cora; Masten, Bethany; Welbourn, Brandon; Pickell, Casey; Pizarick, Marissa; Holleran, Anne

8/24 meeting agenda

- Status of remaining items for rule direction:
 - CBI issues
 - Joint submission approaches: requirement vs option? How to address article importers?
 - Discussion of PFAS definition in preamble & RTC: any concerns? Additional sources/cites needed?
- Any other items?

Ex. 5 Deliberative Process (DP)

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Appointment

From: Griffin, Stephanie [griffin.stephanie@epa.gov]
Sent: 4/28/2021 1:24:56 PM
To: Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Holsinger, Hannah [Holsinger.Hannah@epa.gov]
CC: Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]
Subject: 8(a) PFAS Data Call Workgroup Meeting
Attachments: Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: 8(a) PFAS Data Call Workgroup Meeting; Untitled Attachment
Location: Microsoft Teams Meeting
Start: 4/28/2021 6:00:00 PM
End: 4/28/2021 7:00:00 PM
Show Time As: Busy
Recurrence: Weekly
every Wednesday from 2:00 PM to 3:00 PM
Required Attendees: Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Holsinger, Hannah; Barkas, Jessica; Milton, Philip; Franklyn, Valarie
Optional Attendees: Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon; Hummel, Natalie

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To: Shortt, Veronica [Shortt.Veronica@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Holsinger, Hannah [Holsinger.Hannah@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]

CC: Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]

Subject: Canceled: 8(a) PFAS Data Call Workgroup Meeting

Start: 12/8/2021 7:00:00 PM
End: 12/8/2021 8:00:00 PM
Show Time As: Free

Importance: High

Recurrence: (none)

Required Attendees: Shortt, Veronica; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Holsinger, Hannah; Barkas, Jessica; Milton, Philip; Franklyn, Valarie

Optional Attendees: Hummel, Natalie; Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon

Nothing for discussion; cancelling the 12/8 meeting. A few updates to share:

- Some of you may already be aware, but last night the House passed a compromise NDAA that does not include any language to update TSCA 8(a)(7) – i.e., no requirements to update the definition of PFAS for this rule. (Explanatory document: <https://rules.house.gov/sites/democrats.rules.house.gov/files/1751605-RCP117-21-JES.pdf#page=651>). It still needs to pass the Senate, but given this was negotiated between both houses, it seems reasonable to expect it to pass.
- A reminder to continue to review the comment topics outline & comment excerpts in CommentCAT, but please do not make any updates within CommentCAT; ERG has begun their initial comment summaries. If you do have comments on where something's been assigned, please let me know.
 - ERG has begun preparing comment summaries for the priority topics we discussed last week: data elements, reporting exemptions, reporting period start/duration, and including processors in the reporting universe. They'll provide those summaries soon, and we can start discussing both the summaries and EPA's response.

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Message

From: Deaver, Noland [Deaver.Noland@epa.gov]
Sent: 3/4/2021 6:19:06 PM
To: Sullivan, Andrew [sullivan.andrew@epa.gov]; Camacho, Iris [Camacho.Iris@epa.gov]; Mottl, Nathan [Mottl.Nathan@epa.gov]; Hassan, Ume [Hassan.Ume@epa.gov]; Jackson, Eric [Jackson.Eric@epa.gov]; Gallagher, Jeffrey [Gallagher.Jeffrey@epa.gov]; Osterweil, Elyse [Osterweil.Elyse@epa.gov]; Nahar, Muna [Nahar.Muna@epa.gov]; Hernandez-Vega, Margaret [hernandez-vega.margaret@epa.gov]; Tiwari, Ritesh [tiwari.ritesh@epa.gov]; Johnson, Harrison (Danielle) [johnson.harrison@epa.gov]; Cox, James W. [cox.jamesw@epa.gov]; McClung, Gwendolyn [McClung.Gwendolyn@epa.gov]; Kennedy, Amuel [Kennedy.Amuel@epa.gov]; Townsend, Clifton [Townsend.Clifton@epa.gov]; Tobias, David [Tobias.David@epa.gov]; Salazar, Keith [Salazar.Keith@epa.gov]; Avcin, Joseph [Avcin.Joe@epa.gov]; Lee, Wen-Hsiung [Lee.Wen-Hsiung@epa.gov]; Nelson, Megan M [Nelson.Megan@epa.gov]; Nguyen, Khoa [nguyen.khoa@epa.gov]; Al-Haddad, Emad [al-haddad.emad@epa.gov]; Hou, Ariel [Hou.Ariel@epa.gov]; Childs, Elizabeth [childs.elizabeth@epa.gov]; Rahman, Md Mizanur [Rahman.MdMizanur@epa.gov]; Choi, Kyoungju [Choi.Kyoungju@epa.gov]; Hilton, Geraldine [Hilton.Geraldine@epa.gov]; Alwood, Jim [Alwood.Jim@epa.gov]; Schutz, David [Schutz.David@epa.gov]; Bauer, Jeff [Bauer.Jeff@epa.gov]; Samek, Karen [Samek.Karen@epa.gov]; Master, Barbora [Master.Barbora@epa.gov]; Davis, Lauren O. [Davis.LaurenO@epa.gov]; Buckley, Christopher [buckley.christopher@epa.gov]; Stanton, Alexandria [stanton.alexandria@epa.gov]; Hoffer, Danielle [hoffer.danielle@epa.gov]; Wysong, William [wysong.william@epa.gov]; Yan, James [Yan.James@epa.gov]; Hundal, Amrit [Hundal.Amrit@epa.gov]; Gordon, Eleonor [Gordon.Eleonore@epa.gov]; Cool, Rebecca [Cool.Rebecca@epa.gov]; Victor, Meg [Victor.Meg@epa.gov]; Snyderman, Steven [Snyderman.Steven@epa.gov]; Edelstein, Rebecca [Edelstein.Rebecca@epa.gov]; Rutigliano, Marian [Rutigliano.Marian@epa.gov]; Malagon, Hector [Malagon.Hector@epa.gov]; Miller, Monica [miller.monica@epa.gov]; Stanley, Darrell [stanley.darrell@epa.gov]; Sames, Jayna [Sames.Jayna@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Zhang, Liang [zhang.liang@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Owens, Diana [owens.diana@epa.gov]; Winn, Tyler [Winn.Tyler@epa.gov]; Tuckhorn, Caroline [tuckhorn.caroline@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Fehrenbacher, Cathy [Fehrenbacher.Cathy@epa.gov]; Akinboye, Emmanuel [Akinboye.Emmanuel@epa.gov]; Passe, Loraine [Passe.Lorraine@epa.gov]

I thought our working definition for PFAS was

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Message

From: Inside TSCA [epa-alerts@iwpnews.com]
Sent: 5/4/2021 12:51:21 PM
To: Stedeford, Todd [Stedeford.Todd@epa.gov]
Subject: The Morning Headlines from Inside TSCA -- May 4, 2021



May 4, 2021

Latest News

Study Says Asbestos May Escape Burial Sites, Broadening Exposures

A recent study says "millions of people" living near asbestos-contaminated sites could be more exposed to the toxic fibers than was previously known, based on new findings that it can migrate to groundwater even after being buried and covered with a soil "cap" -- a common method of cleaning up the material at Superfund and other waste sites. **FULL STORY**

State Advisors Urge EPA To Standardize 'PFAS' Definition Across Programs

A joint state-EPA workgroup is urging the agency to craft a single definition of per- and polyfluoroalkyl substances (PFAS) that would apply not only to TSCA and other agency programs but also help states avoid contradictory definitions of "PFAS-free" products. **FULL STORY**

ASDWA Eyes PFAS Policies As Boost To TSCA Drinking Water Protection

The Association of State Drinking Water Administrators (ASDWA) is welcoming EPA's recent announcements that it will tighten TSCA controls for per- and polyfluoroalkyl substances (PFAS) as a sign that the agency is acting on a recent call to step up use of the chemicals law for drinking water contaminants. **FULL STORY**

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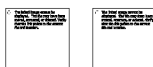
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Message

From: Goodrow, Sandra [Sandra.Goodrow@dep.nj.gov]
Sent: 3/19/2020 4:13:18 PM
To: taylorj1@michigan.gov; Strynar, Mark [Strynar.Mark@epa.gov]
Subject: Re: C6O4 structure

So, I would love to have the ITRC team discuss the potential for the need to revise the definition and engage those relevant scientists in the discussion. I will definitely throw it in the pot of things we have to do.

As far as the refrigerants, they seem to have always been left out of the discussion due to their very different mechanisms of fate and transport, and ultimate impacts on the environment. As I understand it, those PFCs (the first true PFCs) are generally a concern for their greenhouse gas action. Very different physical and chemical properties, so it seems that the PFAS world broke up with them long ago. I am not saying that this should be forever!

Let's keep our eyes out for papers on this issue and share if we see something interesting.

Thanks, Joy and Mark! I hope everyone is well and stays well!

Sandra M. Goodrow, Ph.D.
Research Scientist I
NJ Dept. of Environmental Protection
Division of Science & Research
428 E. State St., 1st Floor
Mail Code 428-01, P.O. Box 420
Trenton, NJ 08625-0420
(609) 940-4164 *New Phone Number!*
Sandra.Goodrow@dep.nj.gov

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From: Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>
Sent: Thursday, March 19, 2020 11:26 AM
To: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>; Strynar, Mark <Strynar.Mark@epa.gov>
Subject: [EXTERNAL] RE: C6O4 structure

Yes, we are hearing similar stories from industry. There are questions being asked now too on the cyclics from some environmental groups.

Maybe there is a way the definition can be broad enough to not exclude these chemicals but I'm not sure the best way to do this and hope for both of your guidance. Sandra, do you hope to add cyclics to your definition in the Tech Reg document and try to better address the refrigerant issue? Is this being released as a draft for review and comment? So appreciate your input!

From: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>
Sent: Wednesday, March 18, 2020 2:45 PM

To: Strynar, Mark <Strynar.Mark@epa.gov>; Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>

Subject: Re: C6O4 structure

Thanks for your thoughts on this, Mark. Yes, why should they get a pass!

At ITRC, we have several industry people that push hard for limiting the definition to protect their products. ITRC will be releasing the Tech Reg document in a few weeks with their input, but will continue for another two years to incorporate additional information. This naming and classification will be something we should try to come to a consensus about...with your help, I hope!

Thanks, again!

Stay well, everyone!

S

From: Strynar, Mark <Strynar.Mark@epa.gov>

Sent: Wednesday, March 18, 2020 1:50 PM

To: taylorj1@michigan.gov <taylorj1@michigan.gov>; Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>

Subject: [EXTERNAL] C6O4 structure

Here is a link to the ECHA webpage for this chemical. <https://echa.europa.eu/substance-information/-/substanceinfo/100.207.411>

Within our EPA chemicals dashboard no structure is shown yet. <https://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID00882626>

Mark

From: Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>

Sent: Wednesday, March 11, 2020 3:37 PM

To: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>; Strynar, Mark <Strynar.Mark@epa.gov>

Subject: RE: Assistance

Hello Mark,

Recall I work for MI EGLE and am Chair of the Air Quality Workgroup for MPART (www.michigan.gov/pfasresponse). I have been tasked with coming up with a technical definition of PFAS for MPART.

Please see my note below to Dr. Sandra Goodrow with NJ DEP. I am most interested in learning about the cyclic compounds (you mention cyclic PFAS were found on our recent fume suppressant call) and refrigerants.

Let me know if you would be available to talk to Sandra and I about this in the near future.

Best regards,
Joy

Joy Taylor Morgan
Air Quality Division - EGLE

Toxics Unit
taylorj1@michigan.gov
517-284-6765

From: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>
Sent: Tuesday, March 10, 2020 3:04 PM
To: Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>
Subject: RE: Assistance

Hi, Joy! Great question! But you probably started something...

Here is my understanding:

The definition that ITRC struggled to get consensus on is as follows:

Per- and polyfluoroalkyl substances (PFAS) are a very large family of thousands of chemicals that vary widely in their chemical and physical properties, as well as their potential risks to human health and the environment. Buck et al. (2011) provides a very precise definition of PFAS (see text box) stating that all PFAS contain within their molecular structure a straight or branching (but not cyclic) chain of carbon atoms in which one or more of the carbon atoms have fluorine atoms attached at all bonding sites not occupied by another carbon atom and the fluorinated part of the molecule (the "perfluoroalkyl moiety") can be expressed as C_nF_{2n+1} .

This would mean that the 3,3,3-trifluoropropene would be a PFAS because one of end carbons is fully fluorinated and that one carbon (unless someone won't let us use it to fulfill two of the essential elements of its definition) has F attached at all bonding sites not occupied by another carbon atom.

But it seems that Mark Strynar, who I have no doubt is correct under his definition, does not preclude the cyclic compounds, where in the Buck definition, they would not be included- you need that moiety with $2n+1$ F on a carbon. We need to know how Mark defines it and why.

And, in my opinion refrigerants would be included under PFAS- they were the original PFCs! However, these short chain PFAS have such different physical and chemical properties that they really don't belong in the same discussion. I think this is just a semantic issue and now these refrigerants go by PFCs or perfluorocarbons.

And, as far as your last compound, it seems that it would also fall under the Buck definition, as there are carbons that are fully fluorinated.

I would really like to bring Mark into the conversation. **Would you want to reply to me and CC him in on the discussion?** If he believes that the ITRC/Buck definition is flawed, I would like to catch it before it goes to print!

Sandra M. Goodrow, Ph.D.
Research Scientist I
NJ Dept. of Environmental Protection
Division of Science & Research
428 E. State St., 1st Floor
Mail Code 428-01, P.O. Box 420
Trenton, NJ 08625-0420
(609) 940-4164 **New Phone Number!**
Sandra.Goodrow@dep.nj.gov



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From: Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>

Sent: Tuesday, March 10, 2020 2:11 PM

To: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>

Subject: [EXTERNAL] Assistance

Hi Sandra,

Long time no talk. I hope things are going well in NJ!

I have been tasked with facilitating a group that needs to draft a PFAS definition for MPART so I have been reviewing how PFAS is defined by the ITRC and other entities before the MPART subgroup meets.

My understanding is that aromatics are not included as a PFAS but cyclic compounds can be (Dr. Mark Stryner with EPA verified this for me) and refrigerants can't be included as a PFAS. This is confusing to me as a couple of scientists have said that to be a PFAS you need at least one carbon that is fully fluorinated, although this does not seem to always be the case.

And I guess I'm not sure exactly how refrigerants are specifically defined.

We have found one of our facilities use/make a few compounds like 3,3,3-trifluoropropene (cas # 677-21-4) and 1,3,5-tris(trifluoropropyl) trimethylcyclotrisiloxane cyclic methyltrifluoropropysiloxane, d3 (cas # 2374-14-3) and I thought they were PFAS, but now I'm not sure.

Can you provide any assistance or know who I can talk to about this?

Thanks so much!

Joy

Joy Taylor Morgan
Air Quality Division
Toxics Unit
taylorj1@michigan.gov
517-284-6765

Message

From: Taylor Morgan, Joy (EGLE) [TAYLORJ1@michigan.gov]
Sent: 3/19/2020 3:26:00 PM
To: Goodrow, Sandra [Sandra.Goodrow@dep.nj.gov]; Strynar, Mark [Strynar.Mark@epa.gov]
Subject: RE: C6O4 structure

Yes, we are hearing similar stories from industry. There are questions being asked now too on the cyclics from some environmental groups.

Maybe there is a way the definition can be broad enough to not exclude these chemicals but I'm not sure the best way to do this and hope for both of your guidance. Sandra, do you hope to add cyclics to your definition in the Tech Reg document and try to better address the refrigerant issue? Is this being released as a draft for review and comment? So appreciate your input!

From: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>
Sent: Wednesday, March 18, 2020 2:45 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>; Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>
Subject: Re: C6O4 structure

Thanks for your thoughts on this, Mark. Yes, why should they get a pass!

At ITRC, we have several industry people that push hard for limiting the definition to protect their products. ITRC will be releasing the Tech Reg document in a few weeks with their input, but will continue for another two years to incorporate additional information. This naming and classification will be something we should try to come to a consensus about...with your help, I hope!

Thanks, again!

Stay well, everyone!
S

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Wednesday, March 18, 2020 1:50 PM
To: taylorj1@michigan.gov <taylorj1@michigan.gov>; Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>
Subject: [EXTERNAL] C6O4 structure

Here is a link to the ECHA webpage for this chemical. <https://echa.europa.eu/substance-information/-/substanceinfo/100.207.411>

Within our EPA chemicals dashboard no structure is shown yet. <https://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID00882626>

Mark

From: Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>
Sent: Wednesday, March 11, 2020 3:37 PM

To: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>; Strynar, Mark <Strynar.Mark@epa.gov>

Subject: RE: Assistance

Hello Mark,

Recall I work for MI EGLE and am Chair of the Air Quality Workgroup for MPART (www.michigan.gov/pfasresponse). I have been tasked with coming up with a technical definition of PFAS for MPART.

Please see my note below to Dr. Sandra Goodrow with NJ DEP. I am most interested in learning about the cyclic compounds (you mention cyclic PFAS were found on our recent fume suppressant call) and refrigerants.

Let me know if you would be available to talk to Sandra and I about this in the near future.

Best regards,
Joy

Joy Taylor Morgan
Air Quality Division - EGLE
Toxics Unit
taylorj1@michigan.gov
517-284-6765

From: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>

Sent: Tuesday, March 10, 2020 3:04 PM

To: Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>

Subject: RE: Assistance

Hi, Joy! Great question! But you probably started something...

Here is my understanding:

The definition that ITRC struggled to get consensus on is as follows:

Per- and polyfluoroalkyl substances (PFAS) are a very large family of thousands of chemicals that vary widely in their chemical and physical properties, as well as their potential risks to human health and the environment. Buck et al. (2011) provides a very precise definition of PFAS (see text box) stating that all PFAS contain within their molecular structure a straight or branching (but not cyclic) chain of carbon atoms in which one or more of the carbon atoms have fluorine atoms attached at all bonding sites not occupied by another carbon atom and the fluorinated part of the molecule (the "perfluoroalkyl moiety") can be expressed as C_nF_{2n+1} .

This would mean that the 3,3,3-trifluoropropene would be a PFAS because one of end carbons is fully fluorinated and that one carbon (unless someone won't let us use it to fulfill two of the essential elements of its definition) has F attached at all bonding sites not occupied by another carbon atom.

But it seems that Mark Strynar, who I have no doubt is correct under his definition, does not preclude the cyclic compounds, where in the Buck definition, they would not be included- you need that moiety with $2n+1$ F on a carbon. We need to know how Mark defines it and why.

And, in my opinion refrigerants would be included under PFAS- they were the original PFCs! However, these short chain PFAS have such different physical and chemical properties that they really don't belong in the same discussion. I think this is just a semantic issue and now these refrigerants go by PFCs or perfluorocarbons.

And, as far as your last compound, it seems that it would also fall under the Buck definition, as there are carbons that are fully fluorinated.

I would really like to bring Mark into the conversation. **Would you want to reply to me and CC him in on the discussion?** If he believes that the ITRC/Buck definition is flawed, I would like to catch it before it goes to print!

Sandra M. Goodrow, Ph.D.

Research Scientist I

NJ Dept. of Environmental Protection

Division of Science & Research

428 E. State St., 1st Floor

Mail Code 428-01, P.O. Box 420

Trenton, NJ 08625-0420

(609) 940-4164 *New Phone Number!*

Sandra.Goodrow@dep.nj.gov



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From: Taylor Morgan, Joy (EGLE) <TAYLORJ1@michigan.gov>

Sent: Tuesday, March 10, 2020 2:11 PM

To: Goodrow, Sandra <Sandra.Goodrow@dep.nj.gov>

Subject: [EXTERNAL] Assistance

Hi Sandra,

Long time no talk. I hope things are going well in NJ!

I have been tasked with facilitating a group that needs to draft a PFAS definition for MPART so I have been reviewing how PFAS is defined by the ITRC and other entities before the MPART subgroup meets.

My understanding is that aromatics are not included as a PFAS but cyclic compounds can be (Dr. Mark Stryner with EPA verified this for me) and refrigerants can't be included as a PFAS. This is confusing to me as a couple of scientists have said that to be a PFAS you need at least one carbon that is fully fluorinated, although this does not seem to always be the case.

And I guess I'm not sure exactly how refrigerants are specifically defined.

We have found one of our facilities use/make a few compounds like 3,3,3-trifluoropropene (cas # 677-21-4) and 1,3,5-tris(trifluoropropyl) trimethylcyclotrisiloxane cyclic methyltrifluoropropylsiloxane, d3 (cas # 2374-14-3) and I thought they were PFAS, but now I'm not sure.

Can you provide any assistance or know who I can talk to about this?

Thanks so much!

Joy

Joy Taylor Morgan
Air Quality Division
Toxics Unit
taylorj1@michigan.gov
517-284-6765

Message

From: Detlef Knappe [knappe@ncsu.edu]
Sent: 7/27/2020 1:01:56 PM
To: Strynar, Mark [Strynar.Mark@epa.gov]
CC: Jane Hoppin [jahoppin@ncsu.edu]; Nadine Kotlarz [nkotlar@ncsu.edu]
Subject: Re: does this definition make sense?

Yup. Here's the section from Buck et al. (2011):

Perfluoroalkyl and polyfluoroalkyl substances in the environment: Terminology, classification, and origins

To avoid any subjectivity associated with these adjectives, we urge scientists to adopt the definition provided by the Organisation for Economic Co-operation and Development (OECD 2011), which stipulates that “long-chain” refers to:

perfluoroalkyl carboxylic acids with eight carbons and greater (i.e., with 7 or more perfluorinated carbons) and, perfluoroalkane sulfonates with six carbons and greater

(i.e., with 6 or more perfluorinated carbons).

The “long-chain” definitions for PFCAs and PFSA are different in number of C atoms because a PFSA (e.g., PFHxS, C₆F₁₃SO₃H) with a given number of carbons (6 in the example given) has a greater tendency to bioconcentrate and/or bioaccumulate than a PFCA with the same number of C atoms (e.g., PFHxA, C₅F₁₁COOH) (Martin et al. 2003a, 2003b). Although the OECD definition does not include perfluoroalkyl substances other than carboxylates and sulfo- nates, one may consider that a perfluoroalkyl chain with 7 or more C atoms, e.g., C₇F₁₅–, is, in any case, “long.”

I would challenge the last sentence. Compounds like PFO5DoDA and Nafion by-product 2 behave like long-chain compounds even though they would not be considered long-chain based on the definition provided in the last sentence. Also, when writing the PFAS class paper, the usefulness of the long-/short-chain definition was debated. The narrative that short-chain PFAS are safe is steadily repeated by the fluorochemical industry, but the narrative detracts from efforts to manage the entire PFAS class and continues the cycle of developing "regrettable substitutions"

Best,

Detlef

On Mon, Jul 27, 2020 at 7:56 AM Strynar, Mark <Strynar.Mark@epa.gov> wrote:
It is C7 for the PFCAs (only counting the fluorinated ones).

Mark

Dr. Mark Strynar
US EPA/ORD/CEMM
strynar.mark@epa.gov
(office) 919-541-3706
(mobile) 919-606-6905

From: Detlef Knappe <knappe@ncsu.edu>
Sent: Monday, July 27, 2020 6:57 AM
To: Jane Hoppin <jahoppin@ncsu.edu>
Cc: Nadine Kotlarz <nkotlar@ncsu.edu>; Strynar, Mark <Strynar.Mark@epa.gov>
Subject: Re: does this definition make sense?

I think this is consistent with Buck et al (2011)

On Sun, Jul 26, 2020 at 9:07 PM Jane Hoppin <jahoppin@ncsu.edu> wrote:
short chain = less than C₈ for perfluoroalkyl carboxylic acids and less than C₆ for perfluoroalkyl sulfonic acids

--

Jane Hoppin, ScD
Deputy Director, Center for Human Health and the Environment
Professor, Department of Biological Sciences
University Faculty Scholar, NC State
CB 7633
North Carolina State University
Raleigh, NC 27695

919-515-2918 (office)
jahoppin@ncsu.edu
<http://jahoppin.wordpress.ncsu.edu/>
ORCID: 0000-0001-8456-0969

Message

From: Schumacher, Brian [Schumacher.Brian@epa.gov]
Sent: 3/27/2020 6:07:33 PM
To: Washington, John [Washington.John@epa.gov]; McCord, James [mccord.james@epa.gov]; Strynar, Mark [Strynar.Mark@epa.gov]
Subject: FW: TSCA 8(a) PFAS Data Call - NDAA Required Action - Seeking ORD Comments on How to Define PFAS for This Action - Please Provide Comments Back to Me by COB Tuesday, 3/31
Attachments: NDAA 2020 - Title LXXIII PFAS - Subtitle E.docx; PFAS TSCA 8a scope_workingcopy_for comment.docx

Gentlemen,

Any thoughts on this? Please let me know. Thank you.

Brian

From: Cybulski, Walter <Cybulski.Walter@epa.gov>
Sent: Thursday, March 26, 2020 12:03 PM
To: Buckley, Timothy <Buckley.Timothy@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>; Schumacher, Brian <Schumacher.Brian@epa.gov>; Guiseppi-Elie, Annette <Guiseppi-Elie.Annette@epa.gov>; Ankley, Gerald <Ankley.Gerald@epa.gov>
Cc: Gillespie, Andrew <Gillespie.Andrew@epa.gov>; Frithsen, Jeff <Frithsen.Jeff@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; Flowers, Lynn <Flowers.Lynn@epa.gov>; Hartzell, Evelyn <hartzell.evelyn@epa.gov>; Riddick, Lee <Riddick.Lee@epa.gov>; Ramasamy, Santhini <Ramasamy.Santhini@epa.gov>; Daniels, Rebecca <Daniels.Rebecca@epa.gov>; Linnenbrink, Monica <Linnenbrink.Monica@epa.gov>
Subject: TSCA 8(a) PFAS Data Call - NDAA Required Action - Seeking ORD Comments on How to Define PFAS for This Action - Please Provide Comments Back to Me by COB Tuesday, 3/31

Hello, PFAS Leads for ORD Centers.

ORD/OSAPE is contacting you for assistance in conducting a wider ORD review of OCSPP's initial thoughts on their potential approaches to define what PFAS will be included in the **TSCA Section 8(a) Data Call** rulemaking that they are currently developing as required by the National Defense Authorization Act for Fiscal Year 2020 (NDAA). Please see the attached document - NDAA 2020 - Title LXXIII PFAS - Subtitle E – for the statutory background for this action.

NDAA does not provide a PFAS definition or specific list of PFAS for EPA to include in this TSCA Section 8(a) rulemaking.

Ex. 5 Deliberative Process (DP)

reaching out to the ORD Center PFAS Leads to have the appropriate ORD experts review these potential approaches, and OSAPE will provide those comments to OCSPP for their consideration as they move forward with this rulemaking.

Please review the attached PFAS TSCA 8(a) Scope document and provide any comments from your Center back to me by COB Tuesday, 3/31. OSAPE will provide consolidated comments to OCSPP for consideration and continued workgroup discussions on the development of this TSCA Section 8(a) rulemaking.

Thank you in advance for your consideration in helping with this request. Please reach out to me if there are any questions.

Regards,

Walter

Walter J. Cybulski III, Ph.D.
U.S. Environmental Protection Agency
Office of Research and Development
Office of Science Advisor, Policy & Engagement, Regulatory Support Branch
Ronald Reagan Building -- Room 51120, Mail Code 8104R
1200 Pennsylvania Avenue NW, Washington, DC 20460
Telephone: (202) 564-2409 Email: cybulski.walter@epa.gov

Message

From: Linda Birnbaum [birnbaum.tox@outlook.com]
Sent: 7/23/2020 7:55:12 PM
To: Strynar, Mark [Strynar.Mark@epa.gov]
Subject: RE: PFAS as a class paper--do we include aromatics?

Thx – good idea

I think these are both regulated under the Montreal Protocol

But I would assume they would persist in the environment...

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Thursday, July 23, 2020 3:47 PM
To: Linda Birnbaum <birnbaum.tox@outlook.com>
Subject: Re: PFAS as a class paper--do we include aromatics?

If it is just about the difluoro methane and difluoro ethane I think my colleagues in the EPA air program would be better suited to answer. I really have no experience or understanding on that question.

They are John Offenbergs at offenberg.john@epa.gov and Jeff Ryan at ryan.jeff@epa.gov. If they cant answer they perhaps can refer you to someone who can.

Mark

Dr. Mark Strynar
US EPA/ORD/CEMM
strynar.mark@epa.gov
(office) 919-541-3706
(mobile) 919-606-6905

From: Linda Birnbaum <birnbaum.tox@outlook.com>
Sent: Thursday, July 23, 2020 3:32 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: FW: PFAS as a class paper--do we include aromatics?

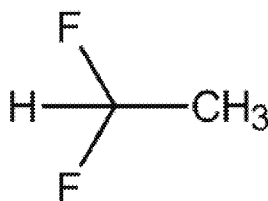
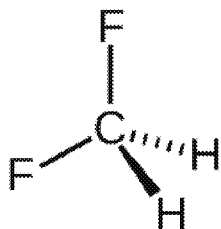
Your opinion?

From: Reade, Anna <areade@nrdc.org>
Sent: Thursday, July 23, 2020 3:27 PM
To: Carol Kwiatkowski <kwiatkowskicf@gmail.com>; Tom Bruton <tom@greensciencepolicy.org>
Cc: Dave Andrews <dandrews@ewg.org>; Linda Birnbaum <birnbaum.tox@outlook.com>; DeWitt, Jamie <dewittj@ecu.edu>; Detlef Knappe <knappe@ncsu.edu>; Maricel Maffini <drmvma@gmail.com>; Miller, Mark (NIH/NIEHS) [E] <mark.miller2@nih.gov>; Katie Pelch <katiepelch@tedx.org>; anna soehl <anna@greensciencepolicy.org>; Xenia Trier <Xenia.Trier@eea.europa.eu>; marta venier <mvenier@indiana.edu>; Charlotte Wagner <cwagner@g.harvard.edu>; Wang Zhanyun (IfU, ESD) <zhanyun.wang@ifu.baug.ethz.ch>
Subject: RE: PFAS as a class paper--do we include aromatics?

Hi all,

Along these lines, any opinions on/advice on how to evaluate smaller, partially fluorinated chemicals like difluoromethane and 1,1-difluoroethane, that are being looked at as replacements for PFAS-based refrigerants? Are they less persistent than typical PFAS, but still persistent? Anything known about what happens to them in the environment over time?

Thanks!



From: Carol Kwiatkowski <kwiatkowskicf@gmail.com>

Sent: Wednesday, July 15, 2020 1:36 PM

To: Tom Bruton <tom@greensciencepolicy.org>

Cc: Dave Andrews <dandrews@ewg.org>; Linda Birnbaum <birnbaum.tox@outlook.com>; DeWitt, Jamie <dewittj@ecu.edu>; Detlef Knappe <knappe@ncsu.edu>; Maricel Maffini <drmvma@gmail.com>; Miller, Mark (NIH/NIEHS) [E] <mark.miller2@nih.gov>; Katie Pelch <katiepelch@tedx.org>; Reade, Anna <areade@nrdc.org>; anna soehl <anna@greensciencepolicy.org>; Xenia Trier <Xenia.Trier@eea.europa.eu>; marta venier <mvenier@indiana.edu>; Charlotte Wagner <cwagner@g.harvard.edu>; Wang Zhanyun (IfU, ESD) <zhanyun.wang@ifu.baug.ethz.ch>

Subject: Re: PFAS as a class paper--do we include aromatics?

Hi Tom,

I believe your interpretation is correct. Here is how we responded to the reviewers:

L121 as the other reviewer pointed out it may be wise to explicitly exclude CF3 groups from this definition to avoid confusion, although the addition of aliphatic certainly helps.

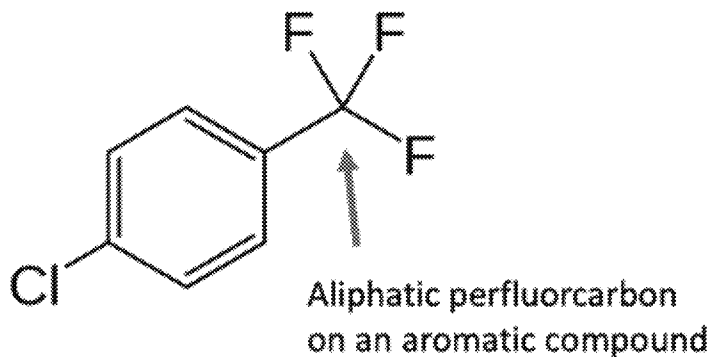
We understand the reviewers' concerns about including compounds with as little as one CF₂ or CF₃ group in the definition of PFAS. However, such a definition is in alignment with current guidance from the OECD and the US EPA. As this paper gives a high-level rationale for taking a precautionary approach to chemicals containing the persistent perfluoroalkyl moiety, we feel a broad definition is appropriate.

On Tue, Jul 14, 2020 at 10:43 AM Tom Bruton <tom@greensciencepolicy.org> wrote:

Hi all,

I received a question from someone in California government about whether or not we meant to include aromatic compounds with one CF₃ group in our definition of the class of PFAS. What do you think? I read through the discussions we had when we were addressing the reviewers' comments, and there seem to have been arguments both for and against from within our group. I cannot remember if we reached a consensus.

The definition we included is: "chemicals with at least one aliphatic perfluorocarbon moiety (e.g., $-C_nF_{2n}-$).\" By my reading, this would include aromatic compounds that contain one aliphatic perfluorocarbon, such as parachlorobenzenetrifluoride (a solvent for printing inks).



Thanks for your thoughts.
Tom

—
Tom Bruton, PhD
Senior Scientist
Green Science Policy Institute
tom@greensciencepolicy.org
~~510-898-1739~~

I am working remotely until further notice. My cell is 773-628-4452.

The Green Science Policy Institute provides unbiased scientific information to government, industry, and non-governmental organizations to facilitate more informed decision-making about chemicals used in consumer products in order to protect health and environment worldwide.

Message

From: Washington, John [Washington.John@epa.gov]
Sent: 6/29/2021 9:22:57 PM
To: Lindstrom, Andrew [Lindstrom.Andrew@epa.gov]; Zhanyun.wang [zhanyun.wang@ifu.baug.ethz.ch]
CC: Strynar, Mark [Strynar.Mark@epa.gov]
Subject: RE: Follow-up on PFAS GHGRP Meeting

Hey guys,

I think us authors can talk about it when we get some reaction from Science editors or reviewers. It looks as though it defines a subset of the OECD definition, doesn't it? I think any compound by this PFAS definition also would be PFAS by OECD definition . . . let me know if I am missing something.

Thanks,
John

From: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Sent: Tuesday, June 29, 2021 2:01 PM
To: Zhanyun.wang <zhanyun.wang@ifu.baug.ethz.ch>
Cc: Washington, John <Washington.John@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: Follow-up on PFAS GHGRP Meeting

Zhanyun,

Thank you very much.

With such a specific (and odd to me) definition, it seems to be strategically limiting where further inquiries will be made.

Exclusion of CF₃ compounds and PVDF is a big loophole.

Thank you!

Andy

From: Wang Zhanyun (IfU, ESD) <zhanyun.wang@ifu.baug.ethz.ch>
Sent: Tuesday, June 29, 2021 1:52 PM
To: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Cc: Washington, John <Washington.John@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>
Subject: Re: Follow-up on PFAS GHGRP Meeting

Dear Andy,

The new proposed definition of PFAS for TSCA will let go many F-gases, pesticides, pharmaceuticals and dyes that contain only one -CF₃ group and PVDF (second largest used fluoropolymers). Notably, DuPont tested fluorotelomers that have structures such as F(CF₂CH₂)_n-CH₂-CH₂-R instead of F(CF₂CF₂)_n-CH₂-CH₂-R before. And such new compounds won't fall under the new definition as well (but I don't know if Chemours have plans to produce them). Similarly, compounds with the structure F(CF₂-O)_n-R will not fall under this new definition.

It' ll not cause problem internationally, as the OECD definition does allow users to set their user-specific working scope, but of course it' ll set some precedents for some people/organisations.

This definition may comes from Antony Williams' s group (at least I first heard about it from them a while ago).

Best regards,
Zhanyun

On 29 Jun 2021, at 19:36, Lindstrom, Andrew <Lindstrom.Andrew@epa.gov> wrote:

Zhanyun,

Do you have any comments or reaction to the new proposed definition of PFAS for TSCA?

I'm interested to hear if you think this will help or cause problems internationally?

Specifically, why would they choose this definition:

"...includes per- and polyfluorinated substances that structurally contain the unit $R-(CF_2)-C(F)(R')R''$. Both the CF_2 and CF moieties are saturated carbons and none of the R groups (R , R' or R'') can be hydrogen."

John, maybe we should reference this in the *Science* article.

Thank you very much,

Andy

From: Spalt, Nicholas <Spalt.Nicholas@epa.gov>

Sent: Monday, June 28, 2021 4:04 PM

To: Ottinger, Deborah <Ottinger.Deborah@epa.gov>; Barrette, Michael <Barrette.Michael@epa.gov>; D'Ambro, Emma <dambro.emma@epa.gov>; Lewis, Candace <Lewis.Candace@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Merrill, Raymond <Merrill.Raymond@epa.gov>; Miller, Melinda <miller.melinda@epa.gov>; Murphy, Benjamin <Murphy.Benjamin@epa.gov>; Sheppard, Margaret <Sheppard.Margaret@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>

Cc: Ryan, Jeff <Ryan.Jeff@epa.gov>; Offenberg, John <Offenberg.John@epa.gov>; Linak, Bill <Linak.Bill@epa.gov>; Lee, Chun-Wai <Lee.Chun-Wai@epa.gov>; Bogle, Stephanie <bogle.stephanie@epa.gov>; Banks, Julius <Banks.Julius@epa.gov>

Subject: RE: Follow-up on PFAS GHGRP Meeting

No problem Debbie, and yes that attachment and write-up is very helpful. For the dashboard - I can follow-up with you separately about a proposal for loading data while this new workgroup deliberates.

All,

Apologies for cross postings but TSCA has submitted a PFAS definition in their proposed rule for 40 CFR 705.3 (see below). Certainly a good jumping point for the workgroup. Do we have a list for these 1,364 compounds? Tony would you feel comfortable leading the meeting for those who have affirmed involvement (and other necessary attendees) for this new discussion? I feel that it is best to have someone with the chemistry background to lead this charge. Here is the list of affirmed names:

Tony Williams
John Offenberg
Nicholas Spalt
Ben Murphy
Emma D'Ambro
Ray Merrill (Keep me in the loop)
Debbie Ottinger
Margaret Shappard (Checking with Supervisor)

TSCA Proposed Rule (Listed POC in e-mail chain Becky Cuthbertson):

Today there was a proposed rule published in the Federal Register for reporting on manufacturing and use of certain PFAS under TSCA authority. The preamble description of what falls into the definition of PFAS at 86 FR 33929 describes it as:

Reportable chemicals substances.

Under TSCA section 8(a)(7), EPA must collect information on chemical substances that are “perfluoroalkyl or polyfluoroalkyl” substances or PFAS. EPA has determined that any PFAS that fall within the structural definition, described below, are the PFAS referred to in TSCA section 8(a)(7). For this proposed rule, EPA has identified at least 1,364 chemical substances and mixtures that are PFAS and would potentially be subject to reporting under the final rule, if they have been manufactured in any year since January 1, 2011. For the purposes of this proposed action, the structural definition of PFAS includes per- and polyfluorinated substances that structurally contain the unit R-(CF₂)-C(F)(R')R”. Both the CF₂ and CF moieties are saturated carbons and none of the R groups (R, R' or R”) can be hydrogen. It should be noted that this structural definition of PFAS is a working definition which has been used by EPA’s Office of Pollution Prevention and Toxics when identifying PFAS on the TSCA Inventory. This definition may not be identical to other definitions of PFAS used within EPA and/or other organizations. To assist potential reporters with determining whether certain substances may be covered under this structural definition, EPA has identified specific PFAS covered by this proposed rule. These will be included as non-exhaustive examples in the rule where it is possible to do so without divulging information claimed as CBI.....

the proposed rule text for 40 CFR 705.3 reads:

Per- and polyfluoroalkyl substances or PFAS, for the purpose of this part, means any chemical substance or mixture that structurally contains the unit R-(CF₂)-C(F)(R')R”. Both the CF₂ and CF moieties are saturated carbons. None of the R groups (R, R' or R”) can be hydrogen.

Full proposal is attached.

From: Ottinger, Deborah <Ottinger.Deborah@epa.gov>

Sent: Thursday, June 24, 2021 4:48 PM

To: Spalt, Nicholas <Spalt.Nicholas@epa.gov>; Barrette, Michael <Barrette.Michael@epa.gov>; D'Ambro, Emma <dambro.emma@epa.gov>; Lewis, Candace <Lewis.Candace@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Merrill, Raymond <Merrill.Raymond@epa.gov>; Miller, Melinda <millier.melinda@epa.gov>; Murphy, Benjamin <Murphy.Benjamin@epa.gov>; Sheppard, Margaret <Sheppard.Margaret@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>

Cc: Ryan, Jeff <Ryan.Jeff@epa.gov>; Offenberg, John <Offenberg.John@epa.gov>; Linak, Bill <Linak.Bill@epa.gov>; Lee, Chun-Wai <Lee.Chun-Wai@epa.gov>; Bogle, Stephanie <bogle.stephanie@epa.gov>; Banks, Julius <Banks.Julius@epa.gov>

Subject: RE: Follow-up on PFAS GHGRP Meeting

Thank you, Nick! Thanks also for the illuminating presentation this morning.

FYI, I have received the go-ahead from my branch chief to serve on the team taking a closer look at our operating definition of "PFAS."

I am attaching the review of your workbooks that I shared with the group this morning. I focused on three datasets: emissions from fluorinated gas production and transformation processes reported under subpart L, emissions from semiconductor etching and chamber cleaning processes reported under subpart I, and emissions of heat transfer fluids reported under subpart I. On each tab, I have highlighted the saturated HFCs and PFCs in yellow. The saturated HFCs and PFCs are the compounds that underwent toxicological (and other) review through OAR/OAP/SPD's SNAP program and were generally not found to be concerning. The PFCs in particular are not reactive, but persist in the atmosphere for thousands of years. (This is what makes them some of the most potent GHGs known.)

I have also added notes for the heat transfer fluids that are composed of perfluoro polymethyl isopropyl ethers (PFPMIEs) and manufactured by Solvay. As I mentioned this morning, these PFPMIEs are all technically different compounds because they have different chain lengths and molecular weights, but they are all constructed of the same building blocks. Because they are technically different compounds, we have assigned them unique CASRNs by adding "(a)," "(b)," etc. notations after the CAS number used by Solvay, but if you look at the starting CASRN, it is identified as a PFAS by OECD (and I believe by Comp Tox as well).

Although I have boiled down the lists you sent us, you will see several almost identical repeats and synonyms in this list. I left these so everyone could see the variety of names used for these compounds.

Hope this is helpful,
Debbie

From: Spalt, Nicholas <Spalt.Nicholas@epa.gov>

Sent: Thursday, June 24, 2021 12:39 PM

To: Barrette, Michael <Barrette.Michael@epa.gov>; D'Ambro, Emma <dambro.emma@epa.gov>; Lewis, Candace <Lewis.Candace@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Merrill, Raymond <Merrill.Raymond@epa.gov>; Miller, Melinda <miller.melinda@epa.gov>; Murphy, Benjamin <Murphy.Benjamin@epa.gov>; Ottinger, Deborah <Ottinger.Deborah@epa.gov>; Sheppard, Margaret <Sheppard.Margaret@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>

Cc: Ryan, Jeff <Ryan.Jeff@epa.gov>; Offenber, John <Offenber.John@epa.gov>; Linak, Bill <Linak.Bill@epa.gov>; Lee, Chun-Wai <Lee.Chun-Wai@epa.gov>

Subject: Follow-up on PFAS GHGRP Meeting

Hi all,

Thanks to those of you who joined the meeting to discuss fluorinated emissions data in the Greenhouse Gas Reporting Program today. Special thanks to Debbie and Melinda for meeting with us on multiple occasions. We certainly made some headway in looking at ways to include GHGRP data in PFAS Analytic Tools – A dashboard integrating various datasets that contain PFAS data. On a broader spectrum, we discussed ways to flag or filter compounds in the COMPTox PFASMASTER List (e.g. flagging common refrigerants). In this way, we could address data steward concerns of what is being presented as PFAS. Those cc'd were recommended as potential interested participants. Those who expressed interest in that on the call include:

Tony Williams
Mike Barrette

Ben Murphy
Emma D'Ambro
Ray Merrill (Keep me in the loop)
Debbie Ottinger (Checking with Supervisor)
Margaret Shappard (Checking with Supervisor)

I've attached the PowerPoint presentation shared today, with some slides that we didn't get to. Those mostly pertain to data transfer and data quality. Happy to hear any feedback. Also attached are the files from the meeting invite that show 5-56% emissions of PFAS data in GHGRP (Range depending on your definition of PFAS, The Subpart, and Category).

We will look to follow-up with those interested and I can send out a next steps e-mail in the near future. I will also see you all on the follow-up ORD call.

Thanks again!
Nick

Nicholas Spalt
U.S. EPA Office of Enforcement and Compliance Assurance (OECA)
Office of Compliance (OC) Enforcement Targeting and Data Division (ETDD)
Integration, Targeting and Access Branch (ITAB)

<2021.06.28 Fed Reg. pdf>

Message

From: Ann Richard (Jira) [jira@ncct-jira.epa.gov]
Sent: 5/18/2020 5:00:00 PM
To: Thillainadarajah, Inthirany [Thillainadarajah.Inthirany@epa.gov]
Subject: Jira: (CCDCOM-2845) 187_DTXSID0024050_1,1-Difluoroethane



Ann Richard **commented** on  CCDCOM-2845

Re: 187_DTXSID0024050_1,1-Difluoroethane

Ex. 5 Deliberative Process (DP)

 Add Comment

This message was sent by Atlassian Jira (v8.3.2#803003-sha1:c034048)

Message

From: Sarang Addanki (Jira) [jira@ncct-jira.epa.gov]
Sent: 4/13/2020 10:46:10 PM
To: Thillainadarajah, Inthirany [Thillainadarajah.Inthirany@epa.gov]
Subject: Jira: (CCDCOM-2845) 187_DTXSID0024050_1,1-Difluoroethane



Sarang Addanki **created** an issue

CCD_Comments / ☒ CCDCOM-2845
187_DTXSID0024050_1,1-Difluoroethane

Issue Type: ☒ Task

Assignee: Sarang Addanki

Created: 2020-04-13 6:45 PM

Priority: ☐ Medium

Reporter: Sarang Addanki

id:187

chem_name:1,1-Difluoroethane

email:brpe461@ecy.wa.gov

DTXSID-URL:<http://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID0024050>

Ex. 5 Deliberative Process (DP)

admin_name:

status:UnResolved

visible:false

annotation_text:

Add Comment

This message was sent by Atlassian Jira (v8.3.2#803003-sha1:c034048)

Message

From: Sarang Addanki (Jira) [jira@ncct-jira.epa.gov]
Sent: 4/23/2020 2:26:01 PM
To: Thillainadarajah, Inthirany [Thillainadarajah.Inthirany@epa.gov]
Subject: Jira: (CCDCOM-3155) 187_DTXSID0024050_1,1-Difluoroethane



Sarang Addanki **created** an issue

CCD_Comments / ☒ CCDCOM-3155
187_DTXSID0024050_1,1-Difluoroethane

Issue Type: ☒ Task

Assignee: Sarang Addanki

Created: 2020-04-23 10:25 AM

Priority: ☐ Medium

Reporter: Sarang Addanki

id:187

chem_name:1,1-Difluoroethane

email:brpe461@ecy.wa.gov

DTXSID-URL:<http://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID0024050>

Ex. 5 Deliberative Process (DP)

admin_name:

status:UnResolved

visible:false

annotation_text:

Add Comment

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Message

From: Sarang Addanki (Jira) [jira@ncct-jira.epa.gov]
Sent: 4/2/2020 4:28:12 PM
To: Thillainadarajah, Inthirany [Thillainadarajah.Inthirany@epa.gov]
Subject: Jira: (CCDCOM-2132) 187_DTXSID0024050_1,1-Difluoroethane



Sarang Addanki **created** an issue

CCD_Comments / ☒ CCDCOM-2132
187_DTXSID0024050_1,1-Difluoroethane

Issue Type: ☒ Task

Assignee: Sarang Addanki

Created: 2020-04-02 12:27 PM

Priority: ☐ Medium

Reporter: Sarang Addanki

id:187

chem_name:1,1-Difluoroethane

email:brpe461@ecy.wa.gov

DTXSID-URL:<http://comptox.epa.gov/dashboard/dsstoxdb/results?search=DTXSID0024050>

Ex. 5 Deliberative Process (DP)

admin_name:

status:UnResolved

visible:false

annotation_text:

 Add Comment

This message was sent by Atlassian Jira (v8.3.2#803003-sha1:c034048)

Appointment

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 2/23/2021 8:57:14 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Subject: FW: Questions about next weeks presentation on PFAS
Location: Microsoft Teams Meeting
Start: 2/23/2021 9:00:00 PM
End: 2/23/2021 9:10:00 PM
Show Time As: Busy
Importance: High
Required Attendees: Schechter, Kathryn

From: Schechter, Kathryn
Sent: Tuesday, February 23, 2021 1:30 PM
To: Williamson, Tracy
Cc: Butler, Tristan
Subject: FW: Questions about next weeks presentation on PFAS
Attachments: PFAS_Michigan.pptx

Here is what Tony was going to present. I think they just wanted ICB to present our working definition as kind of a lead in to his work. Should we just attend as observers then without slides? If so, would it be OK to answer definition questions?

Not sure what the dos and don'ts are for this....

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 10:39 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I might circulate these slides after the presentation but will focus on the lists on the day based on the amount of time left over for me to present. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure

U.S. Environmental Protection Agency
109 T.W. Alexander Drive

Room D131I, Mail Drop D143-02

Research Triangle Park, NC 27711

Office Phone: 919-541-1033

Mobile Phone: 919-698-0526

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HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 2:01 PM
To: Williams, Antony <Williams.Antony@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Here is what I am thinking – let me know if this is way off on your thoughts. I put this in to Tracy, but have not heard back from her yet. For the amount of time we have, I may just use slides 1-4.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 12:04 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Thanks Kathy...much appreciated. I will send you anything that I might prepare too based on what you send. I was thinking though primarily a live demo of PFAS on the dashboard.. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure

U.S. Environmental Protection Agency
109 T.W. Alexander Drive

Room D131I, Mail Drop D143-02

Research Triangle Park, NC 27711

Office Phone: 919-541-1033

Mobile Phone: Ex. 6 Personal Privacy (PP)

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HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Sent: Monday, February 22, 2021 11:40 AM

To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>

Subject: RE: Questions about next weeks presentation on PFAS

Glad to see we are on the same page. I do not have anything prepared slide wise, but I guess we could put something together. I will see what I can do this afternoon.

kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>

Sent: Monday, February 22, 2021 11:36 AM

To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>

Subject: RE: Questions about next weeks presentation on PFAS

Comments below..

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 11:10 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I am not sure!

Ex. 5 Deliberative Process (DP)

Beyond describing what we are using for our working definition of PFAS...

Ex. 5 Deliberative Process (DP)

ICB mostly sees chemicals that are manufacture or imported. Are these recurring meetings that have different discussions as interests arise?

Ex. 5 Deliberative Process (DP)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Friday, February 19, 2021 12:33 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: Questions about next weeks presentation on PFAS

Hi both,

We are scheduled to be on the agenda next week presenting on PFAS to Michigan. I was wondering what you would be presenting on and how you think we should split the 15 minutes allocated to us?
Thanks

Antony J. Williams
Center for Computational Toxicology and Exposure
U.S. Environmental Protection Agency
109 T.W. Alexander Drive

Room D131I, Mail Drop D143-02

Research Triangle Park, NC 27711

Office Phone: 919-541-1033

Mobile Phone: Ex. 6 Personal Privacy (PP)

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Thursday, February 11, 2021 1:34 PM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>; Pachon, Carlos <Pachon.Carlos@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: draft agenda EPA-MPART Call on Feb 25

Hi All,

Attached is the draft agenda for our quarterly call with the Michigan PFAS Action Response Team on Feb. 25.

Please send [Erin McCabe](#) and me any changes or missing agenda topic descriptions by **COB Tuesday, February 16**.

Thank you for your participation in this call!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

US EPA Office of Research and Development

202-564-6669 (desk) Ex. 6 Personal Privacy (PP) ell)

matthews.lisa@epa.gov

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Appointment

From: Scott, Elizabeth [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=52DE4D2D6BC44938908CA2E010E9834A-SCOTT, ELIZABETH]
on behalf of Henry, Tala [Henry.Tala@epa.gov]
Sent: 7/20/2020 4:28:42 PM
To: Henry, Tala [Henry.Tala@epa.gov]; Passe, Loraine [Passe.Loraine@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]; Tyree, JamesN [tyree.jamesn@epa.gov]; Blaufuss, Hannah [Blaufuss.Hannah@epa.gov]; Fahning, Diana [Fahning.Diana@epa.gov]; Scheifele, Hans [Scheifele.Hans@epa.gov]; Le, Madison [Le.Madison@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]
CC: Pierce, Alison [Pierce.Alison@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]; Weir, Harlan [weir.harlan@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]
Subject: TSCA section 8(a) PFAS Data Call
Attachments: PFAS rule_AGENDA_7-20-2020.docx; Questions on PFAS Scope_7-20-2020.docx; Tier 3 rule schedule_7.13.20.xlsx; Attach1_DataUsage_7-20-20.docx
Location: Skype Meeting
Start: 7/21/2020 3:00:00 PM
End: 7/21/2020 4:00:00 PM
Show Time As: Busy

Required Attendees: Passe, Loraine; Lynn Vendinello; Tyree, JamesN; Blaufuss, Hannah; Fahning, Diana; Scheifele, Hans; Madison Le; Schwarz, Stephanie; Schechter, Kathryn
Optional Attendees: Alison Pierce; Ryan Schmit; Weir, Harlan; Butler, Tristan

Per Tala, to move this meeting.

**Thanks,
Liz**

Purpose: Follow-up from our 6/29 meeting on items including: 1) PFAS definition; 2) data use; 3) small business exemption; and 4) outreach.

**BRIEFING MATERIALS:
Loraine Passe (CCD)
(202) 564-9064**

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Appointment

[illegible]

Cancelling the 10/5 meeting. Be on the lookout for an email update from Alie.

Putting standing weekly meetings on the calendar; we'll cancel if there's no need for a meeting.

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To: Shortt, Veronica [Shortt.Veronica@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Holsinger, Hannah [Holsinger.Hannah@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]

CC: Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]

Subject: Canceled: 8(a) PFAS Data Call Workgroup Meeting

Start: 12/8/2021 7:00:00 PM
End: 12/8/2021 8:00:00 PM
Show Time As: Free

Importance: High

Recurrence: (none)

Required Attendees: Shortt, Veronica; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Lan, Alexis; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Holsinger, Hannah; Barkas, Jessica; Milton, Philip; Franklyn, Valarie

Optional Attendees: Hummel, Natalie; Turk, David; Fisher, Bethany; Booth, Joshua; Rodman, Sonja; Rebersak, Shannon

Nothing for discussion; cancelling the 12/8 meeting. A few updates to share:

- Some of you may already be aware, but last night the House passed a compromise NDAA that does not include any language to update TSCA 8(a)(7) – i.e., no requirements to update the definition of PFAS for this rule. (Explanatory document: <https://rules.house.gov/sites/democrats.rules.house.gov/files/1751605-RCP117-21-JES.pdf#page=651>). It still needs to pass the Senate, but given this was negotiated between both houses, it seems reasonable to expect it to pass.
- A reminder to continue to review the comment topics outline & comment excerpts in CommentCAT, but please do not make any updates within CommentCAT; ERG has begun their initial comment summaries. If you do have comments on where something's been assigned, please let me know.
 - ERG has begun preparing comment summaries for the priority topics we discussed last week: data elements, reporting exemptions, reporting period start/duration, and including processors in the reporting universe. They'll provide those summaries soon, and we can start discussing both the summaries and EPA's response.

Putting standing weekly meetings on the calendar; we'll cancel if there's no need for a meeting.

Moving the meeting series to my calendar.

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To: Raccor, Brianne [Raccor.Brianne@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]

CC: Stanley, Cora [stanley.cora@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Turk, David [Turk.David@epa.gov]; Turk, David [Turk.David@epa.gov]; Fisher, Bethany [fisher.bethany@epa.gov]; Booth, Joshua [Booth.Joshua@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Rebersak, Shannon [rebersak.shannon@epa.gov]; Hummel, Natalie [Hummel.Natalie@epa.gov]; Stanley, Cora [stanley.cora@epa.gov]

Start: 3/30/2022 6:00:00 PM

End: 3/30/2022 7:00:00 PM

Recurrence: (none)

3/30 agenda:

1. SBAR Panel updates?
2. Other updates – see outline of final rule FRN in Teams. Any theme or topics missing from the outline?
- 3.

Ex. 5 Deliberative Process (DP)

4. Any other updates to the discussion on Staggered/Tiered Reporting options?
 - a. See summary of public comments and considerations for different options
5. Begin discussion on comments related to the inclusion of articles in general (see 5e in the RTC files). There are a few questions for the workgroup in the comments of the summary.

Putting standing weekly meetings on the calendar; we'll cancel if there's no need for a meeting.

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Appointment

To: Lan, Alexis [lan.alexis@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]; Griffin, Stephanie [griffin.stephanie@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sharkey, Susan [Sharkey.Susan@epa.gov]; Cooperstein, Sharon [Cooperstein.Sharon@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Raffaele, Kathleen [raffaele.kathleen@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Smith, ThomasA [smith.thomasa@epa.gov]; Schechter, Kathryn [Schechter.Kathryn@epa.gov]; Callahan, Leigh [Callahan.Leigh@epa.gov]; Dean, Rachel [Dean.Rachel@epa.gov]; Gorder, Chris [Gorder.Chris@epa.gov]; Shortt, Veronica [Shortt.Veronica@epa.gov]; Foster, Stiven [Foster.Stiven@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Cybulski, Walter [Cybulski.Walter@epa.gov]; Barkas, Jessica [barkas.jessica@epa.gov]; Milton, Philip [Milton.Philip@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Jacob, Annie [Jacob.Annie@epa.gov]; Raccor, Brianne [Raccor.Brianne@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]

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Start: 4/6/2022 6:00:00 PM


End: 4/6/2022 7:00:00 PM

Recurrence: (none)

Required Attendees: Lan, Alexis; Bushman, Daniel; Sharkey, Susan; Cooperstein, Sharon; Butler, Tristan; Raffaele, Kathleen; Lee, Virginia; Smith, ThomasA; Schechter, Kathryn; Callahan, Leigh; Dean, Rachel; Gorder, Chris; Shortt, Veronica; Foster, Stiven; Schwarz, Stephanie; Cybulski, Walter; Barkas, Jessica; Milton, Philip; Franklyn, Valarie; Jacob, Annie; Raccor, Brianne

4/6 meeting agenda:

- SBAR Panel updates?
- Other updates:
 - Met with Michal yesterday to go over options related to reporting threshold and certain reporting exemptions (de minimis, impurities, byproducts, and R&D substances)
 - Thanks to those who've reviewed the FRN outline! I'll start adding information to the background section
 - PFAS definition: received feedback from Tala last week on viable rationales for modifying the proposed definition. It may be in the workgroup's best interest to move this discussion to a separate standing meeting among the workgroup members with equities and/or interest in this outcome until we've figured out the scope for the final rule. – if this works for others, I'd like to send an invite for a Tuesday or Thursday meeting on this topic
- Next RTCs to discuss (before end of April): tiered reporting; articles/article importers; small business exemptions
 - Workgroup poll on tiered reporting options—aim for next week if the workgroup isn't ready to vote today?
 - Begin discussion on public comments on including articles (generally) – see questions for the workgroup within the comment summary of the RTC file [05e Including Articles \(General\) comment-response-document.docx](#)

- If time, start reviewing comments related to article importers specifically  [05eii Article Importers comment-response-document.docx](#)

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Microsoft Teams meeting

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Message

From: Turk, David [Turk.David@epa.gov]
Sent: 2/3/2020 9:29:51 PM
To: Kaczmarek, Chris [Kaczmarek.Chris@epa.gov]; Anderson, Steve [Anderson.Steve@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]; Krasnic, Toni [krasnic.toni@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Reisman, Larry [Reisman.Larry@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]; Sadowsky, Don [Sadowsky.Don@epa.gov]; Thaler, Elizabeth [thaler.elizabeth@epa.gov]
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Thank you for these thoughtful responses. We'll discuss internally and let you know if any follow-up questions or comments arise. At first blush, I think this response aligns with what we were anticipating.

From: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>
Sent: Monday, February 03, 2020 4:27 PM
To: Turk, David <Turk.David@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Dave, I've consolidated below the input received from within PTSLO on your question. Once you've had a chance to digest it all, please let us know if you have any additional questions or concerns that you need us to address. Thanks, Chris

From Steve:

Ex. 5 Attorney Client (AC)

From Don (initial impressions):

Ex. 5 Attorney Client (AC)

From Don (additional, clarifying input):

Ex. 5 Attorney Client (AC)

Ex. 5 Attorney Client (AC)

Chris E. Kaczmarek
Assistant General Counsel
Pesticide and Toxic Substance Law Office
Office of General Counsel
U.S. EPA
Tel (202) 564-3909

From: Turk, David <Turk.David@epa.gov>
Sent: Thursday, January 30, 2020 1:14 PM
To: Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>
Subject: Question Regarding Scope of 721.10536 Definitions

Steve,

Ex. 5 Attorney Client (AC)

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that could fit these definitions or not fit these definitions depending on the specific version of the PFAS being manufactured. The current policy under TSCA is to include such PFAS as covered under 721.10536. Tyler indicated that when the PFAS could contain $\text{-CF}_2\text{-}$ chains of unknown length, we assume that because the feasible chain lengths for the PFAS could fall within the structural definitions of 721.10536 (e.g., (iv) $\text{CF}_3(\text{CF}_2)_m\text{-CH}_2\text{-X}$ where X is any chemical moiety where m is defined as $6 < m < 21$) that .10536 regulates the PFAS. An example of such a PFAS would be:

245331-02-6

Poly(difluoromethylene), .alpha.-fluoro-.omega.-[2-(phosphonooxy)ethyl]-, sodium salt (1:2)

The above PFAS has an undefined number of $\text{-CF}_2\text{-}$ units (i.e., difluoromethylene); it could be assumed that there could be at least some material that would fall into the range 7 to 20 CF_2 units as in the SNUR definition.

Ex. 5 Attorney Client (AC)

As additional info to consider, in the docket for the .10536 SNUR, EPA provided an illustrative list of chemicals. This list includes chemicals where the chain length fits within the .10536 but could also fall outside of the definition.

-Dave, 202-566-1527

Message

From: Turk, David [Turk.David@epa.gov]
Sent: 2/12/2020 9:58:17 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]; Bushman, Daniel [Bushman.Daniel@epa.gov]
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Great. Thanks.

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Wednesday, February 12, 2020 4:57 PM
To: Turk, David <Turk.David@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

Fine with us!

From: Turk, David <Turk.David@epa.gov>
Sent: Wednesday, February 12, 2020 4:50 PM
To: Bushman, Daniel <Bushman.Daniel@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

I agree as well.

Tracy, given that we're all ok w/ not including these substances and CCD indicated that they will defer to ICB, should I let OGC know that they don't need to consider this question anymore?

-Dave

From: Bushman, Daniel <Bushman.Daniel@epa.gov>
Sent: Wednesday, February 12, 2020 4:41 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Turk, David <Turk.David@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

I agree with the way you are leaning, it's much clearer and easier to defend if X must be something.

Ex. 5 Deliberative Process (DP)

Daniel R. Bushman, Ph.D.
TRI Petitions Coordinator and Chemical List Manager
202-566-0743
OCSPP/OPPT/TRI Program Division/Regulatory Development Branch
www.epa.gov/tri/chemicals

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Wednesday, February 12, 2020 4:31 PM
To: Bushman, Daniel <Bushman.Daniel@epa.gov>

Cc: Turk, David <Turk.David@epa.gov>

Subject: RE: Question Regarding Scope of 721.10536 Definitions

Ex. 5 Deliberative Process (DP)

From: Bushman, Daniel <Bushman.Daniel@epa.gov>

Sent: Wednesday, February 12, 2020 3:38 PM

To: Williamson, Tracy <Williamson.Tracy@epa.gov>

Cc: Turk, David <Turk.David@epa.gov>

Subject: RE: Question Regarding Scope of 721.10536 Definitions

Hi Tracy,

Any idea why the attached illustrative list included PFAS where Y was a halogen if they intended for heteroatom to include the narrower list of atoms and a need for X? Someone at the time must have made a call, perhaps incorrectly, that Y could be a halogen.

Ex. 5 Deliberative Process (DP)

Dan

Daniel R. Bushman, Ph.D.

TRI Petitions Coordinator and Chemical List Manager

202-566-0743

OCSPP/OPPT/TRI Program Division/Regulatory Development Branch

www.epa.gov/tri/chemicals

From: Williamson, Tracy <Williamson.Tracy@epa.gov>

Sent: Wednesday, February 12, 2020 3:05 PM

To: Turk, David <Turk.David@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Anderson, Steve

<Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni

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Subject: RE: Question Regarding Scope of 721.10536 Definitions

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From: Turk, David <Turk.David@epa.gov>

Sent: Wednesday, February 12, 2020 1:28 PM

To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Subject: RE: Question Regarding Scope of 721.10536 Definitions

Ex. 5 Attorney Client (AC)

-Dave, 202-566-1527

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Sent: Monday, February 03, 2020 4:27 PM

To: Turk, David <Turk.David@epa.gov>; Anderson, Steve <Anderson.Steve@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>;

Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Reisman, Larry <Reisman.Larry@epa.gov>; Bushman, Daniel <Bushman.Daniel@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
Subject: RE: Question Regarding Scope of 721.10536 Definitions

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From Don (initial impressions):

Ex. 5 Attorney Client (AC)

From Don (additional, clarifying input):

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Chris E. Kaczmarek
Assistant General Counsel
Pesticide and Toxic Substance Law Office
Office of General Counsel
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Tel (202) 564-3909

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From: Bushman, Daniel [Bushman.Daniel@epa.gov]
Sent: 2/12/2020 8:37:33 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Turk, David [Turk.David@epa.gov]
Subject: RE: Question Regarding Scope of 721.10536 Definitions
Attachments: SNUR list 10536 EPA-HQ-OPPT-2012-0268-0039.pdf

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The above PFAS has an undefined number of $-CF_2-$ units (i.e., difluoromethylene); it could be assumed that there could be at least some material that would fall into the range 7 to 20 CF_2 units as in the SNUR definition.

Ex. 5 Attorney Client (AC)

As additional info to consider, in the docket for the .10536 SNUR, EPA provided an illustrative list of chemicals. This list includes chemicals where the chain length fits within the .10536 but could also fall outside of the definition.

-Dave, 202-566-1527

Appointment

From: Williams, Antony [Williams.Antony@epa.gov]
Sent: 10/3/2019 4:47:58 PM
To: Libelo, Laurence [Libelo.Laurence@epa.gov]; Lindstrom, Andrew [Lindstrom.Andrew@epa.gov]; Buckley, Timothy [Buckley.Timothy@epa.gov]; Gillespie, Andrew [Gillespie.Andrew@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]; Krasnic, Toni [krasnic.toni@epa.gov]; Born, Tom [Born.Tom@epa.gov]; Harman, John [Harman.John@EPA.GOV]; Andrew Stoeckle [Andrew.Stoeckle@erg.com]; Pruzinsky, Amanda [Pruzinsky.Amanda@epa.gov]; Abby Burton [abby.burton@erg.com]; Strum, Madeleine [Strum.Madeleine@epa.gov]; Albert, Ryan [Albert.Ryan@epa.gov]; Shumway, Laura [Shumway.Laura@epa.gov]; Grulke, Chris [Grulke.Chris@epa.gov]; Richard, Ann [Richard.Ann@epa.gov]; Patlewicz, Grace [Patlewicz.Grace@epa.gov]; Vasu, Amy [Vasu.Amy@epa.gov]; Merrill, Raymond [Merrill.Raymond@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Steve Geil [steve.geil@erg.com]; Gaines, Linda [Gaines.Linda@epa.gov]; Holsinger, Hannah [Holsinger.Hannah@epa.gov]
CC: Gardenier, George [Gardenier.George@epa.gov]; Hirtz, James [Hirtz.James@epa.gov]; Spells, Charlene [Spells.Charlene@epa.gov]; Lan, Alexis [lan.alexis@epa.gov]; Rexhepi, Doruntine [Rexhepi.Doruntine@epa.gov]; Hanley, Adrian [Hanley.Adrian@epa.gov]; Damico, Brian [Damico.Brian@epa.gov]
Subject: PFAS Analytical Tools Chemical Curation Discussions
Location: Skype Meeting and Tony's Office for CTTE-CCED-CCCB group (Chris and Ann)
Start: 10/7/2019 2:30:00 PM
End: 10/7/2019 4:00:00 PM
Show Time As: Tentative

Required Attendees: Libelo, Laurence; Lindstrom, Andrew; Buckley, Timothy; Gillespie, Andrew; Vendinello, Lynn; Krasnic, Toni; Born, Tom; Harman, John; Andrew Stoeckle; Pruzinsky, Amanda; Abby Burton; Strum, Madeleine; Albert, Ryan; Shumway, Laura; Grulke, Chris; Richard, Ann; Patlewicz, Grace; Vasu, Amy; Merrill, Raymond; Williamson, Tracy; 'Steve Geil'; Gaines, Linda; Holsinger, Hannah
Optional Attendees: Gardenier, George; Hirtz, James; Spells, Charlene; Lan, Alexis; Rexhepi, Doruntine; Hanley, Adrian; Damico, Brian

Colleagues,

As a result of room reconstruction for D101 and lack of available meeting space I have to move this meeting to a Skype gathering. My apologies. If you dial into the phone line please remember to mute unless you are talking. Thank you.

Join Skype Meeting

[Trouble Joining? Try Skype Web App](#)

Join by phone

Toll number: **Ex. 6 Personal Privacy (PP)** (Dial-in Number) English (United States)

[Find a local number](#)

Ex. 6 Personal Privacy (PP)

[Forgot your dial-in PIN?](#) | [Help](#)

Colleagues,

I am putting a placeholder in your calendar for October 7th for a discussion regarding PFAS Chemical Curation and establishing a Workgroup.

A short Executive Summary of the charter for the group is as follows:

The PFAS Chemical List Curation workgroup is to be led by ORD NCCT to develop and maintain an authoritative list of per and polyfluoroalkyl Substances (PFAS) chemicals of interest. A regularly reviewed and updated list would benefit several activities under the PFAS Action Plan. One effort involves the development of a data inventory that seeks to provide pathways for entry of PFAS data into existing national data systems, and the related effort is the development of PFAS Analytic Tools that provide integration, visualization and analysis capabilities for PFAS data.

The workgroup is to:

- **Establish a definition and develop a master list of PFAS chemicals**
- **Establish rationale and flags for filtering the master list of PFAS chemicals to operational lists of specific PFAS chemicals of interest**
- **Establish updating procedure**

A tight timeline has been suggested for progress. ***“PFAS Analytic Tools need a list of PFAS chemicals to retrieve records from databases that contain more than just PFAS chemicals. The PFAS Analytic Tools will need a preliminary list by October 16, 2019 and an updated list towards the end of November.”***

It is extremely difficult to find a time for everyone on the distribution list to attend this meeting but I have done my best with the short timeline available. Apologies in advance if you cannot attend. I will circulate a set of slides ahead of the meeting. Have a great weekend

Ex. 6 Personal Privacy (PP)

From: Butler, Tristan [Butler.Tristan@epa.gov]
Sent: 5/17/2021 11:49:39 AM
To: Le, Madison [Le.Madison@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Fehrenbacher, Cathy [Fehrenbacher.Cathy@epa.gov]; Passe, Loraine [Passe.Loraine@epa.gov]
Subject: RE: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues
Attachments: 2020_PFAS Terminology_draft_v8_17Dec.docx

Good Morning Madison,

I have included the OECD PFAS definition below. It was taken from the 2020_PFAS terminology document attached to this email. Please let me know if you would like any clarifications or if there is anything else I can do to help. Thanks.

Tristan

From: Le, Madison <Le.Madison@epa.gov>
Sent: Monday, May 17, 2021 7:23 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Passe, Loraine <Passe.Loraine@epa.gov>
Subject: FW: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues
Importance: High

Tracy and Tristan – can you help with response for Ranking Member Capito #19 copied below? This is due by 10am today (sooner, if possible). Thanks!

15. What is a simple chemical description that is common to and describes all PFAS compounds?

EPA Response: President Biden highlighted the importance of and his commitment to tackling PFAS pollution and protecting public health and the environment. If confirmed, I am committed to addressing PFAS as a top priority for EPA.

Ex. 5 Deliberative Process (DP)

[DO WE] **Ex. 5 Deliberative Process (DP)** – Tala

For instance, **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

Madison H. Le
Division Director

New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Le, Madison

Sent: Monday, May 17, 2021 7:17 AM

To: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Hoffer, Danielle <hoffer.danielle@epa.gov>; Alwood, Jim <Alwood.Jim@epa.gov>

Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>

Subject: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues

Importance: High

RMB – please get the numbers for #9 and 14 copied below by 10am, today (sooner if possible). I've attached the full document for your reference only. Tala, Ryan and I worked on the NC related questions for Ranking Member Capito #9-14 and Senator Kramer #2 over the weekend. These have already been cleared and sent to OCSP IO.

9. TSCA provides EPA 90 days to review new chemicals, or with good cause for extension, 180 days. How many submissions does EPA currently have that were submitted greater than 90 days ago? 180 days?

EPA Response:

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

EPA Response: EPA's New Chemicals program helps manage the potential risk to human health and the environment from chemicals new to the marketplace.

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP) EPA is transparent about the status of new chemical reviews by providing monthly updates regarding the status of new chemical reviews on its website: <https://www.epa.gov/reviewing-new-chemicals-under-toxic-substances-control-act-tsca/statistics-new-chemicals-review>

Madison H. Le

ED_006319A_00045277-00002

Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

Message

From: Wolf, Joel [Wolf.Joel@epa.gov]
Sent: 2/23/2021 4:41:14 PM
To: Henry, Tala [Henry.Tala@epa.gov]; Le, Madison [Le.Madison@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Canavan, Sheila [Canavan.Sheila@epa.gov]; Symmes, Brian [Symmes.Brian@epa.gov]; Mottley, Tanya [Mottley.Tanya@epa.gov]
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Yes, LCPFAC SNUR and TRI definitions are the same. It was sorted out last spring for the TRI NDAA effort (I know you know that Tala, but others on this chain probably don't)

I think I'm not looped in on everything, so wasn't aware of a briefing yesterday. Also, wasn't aware of the review of OECD/WHO draft on nomenclature, but presume those that need to review have been looped in.

Thanks, Joel

Joel Wolf
Chief, RMB 1
OCSPP/OPPT/ECRMD
US Environmental Protection Agency
WJC East, Room 4121A
202.564.0432, wolf.joel@epa.gov

From: Henry, Tala <Henry.Tala@epa.gov>
Sent: Tuesday, February 23, 2021 7:42 AM
To: Le, Madison <Le.Madison@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

The LCPFC SNUR and TRI definitions are SAME and the latest "TSCA working definitions" as per the briefing yesterday.

This brings me to ask, where is OPPT's review of the OECD/WHO draft on nomenclature?

Eventually, we may want/need to adopt, so need to know if there are specific problems wrt statute (doubt it) or regulation that would be a problem for us....

Tala R. Henry, Ph.D.
Deputy Director
Office of Pollution Prevention & Toxics

T: 202-564-2959
E: henry.tala@epa.gov

From: Le, Madison <Le.Madison@epa.gov>
Sent: Tuesday, February 23, 2021 7:01 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Cc: Henry, Tala <Henry.Tala@epa.gov>
Subject: Re: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

This is the first time I'm hearing about this. Looks like Laura pointed to the LCPAC SNUR as a recently used definition. My understanding is the definition used in the LCPFAC was for a specific purpose and not one that would be applicable when developing a universal definition. I'd suggest leaning more toward how ICB defined it for Inventory purpose (similar to how we teed it up for Michal yesterday).

Adding Joel In case he is aware of these discussions.

Sent from my iPhone

On Feb 22, 2021, at 7:39 PM, Williamson, Tracy <Williamson.Tracy@epa.gov> wrote:

ORD apparently has been having regular calls with the Michigan PFAS Action Response Team (MPART) on PFAS destruction. There is a call this Thursday, and ORD would like some OPPT (and other) folks to join in. They have been coordinating with Laura. ICB was just made aware yesterday because of a PFAS nomenclature question that came up. Are you aware of this effort? Just checking/trying to stay coordinated.

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Monday, February 22, 2021 10:39 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Anapolle, Kent <Anapolle.Kent@epa.gov>
Cc: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Thanks Tracy.

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Monday, February 22, 2021 10:33 AM
To: Anapolle, Kent <Anapolle.Kent@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>
Cc: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Laura,

OPPT uses CAS systematic nomenclature conventions to name individual substances under TSCA. The 1000+ substances on the TSCA Inventory, for example, are named using CAS nomenclature. Please contact Kent Anapolle if you have any questions.

Tracy

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 9:42 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

From: Nazef, Laura <Nazef.Laura@epa.gov>
Sent: Thursday, February 18, 2021 5:38 PM

To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Cc: Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi Kathy,

Please see the request below. Are you aware of an EPA naming protocol for PFAS? Can I identify you as a contact to discuss this with NIST?

Thanks, Laura

From: Mills, Marc <mills.marc@epa.gov>
Sent: Thursday, February 18, 2021 5:11 PM
To: Nazef, Laura <Nazef.Laura@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>
Subject: FW: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Laura and Tony

I have received a similar request regarding naming conventions for PFAS This request (attached) is from NIST. They are funded by DoD to develop a PFAS mass spectrometry library for high res non-targeted analysis. ORD is engaged as one of the funded PFAS forensic projects that will support this library. In this effort, they want to adopt a standard naming convention and it was suggested EPA has developed or adopted such a convention. This is a bit far afield from the PFAS work I do, so I reaching out to you to see if I can provide NIST your contact info for a conversation on this.

Your help is appreciated.

Thanks
Marc

Marc A. Mills, Ph.D.

United States Environmental Protection Agency
Office of Research and Development
26 W. Martin Luther King Dr.
Cincinnati, OH 45268

T. 513.569.7322
F. 513.569.7620
mills.marc@epa.gov

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Wednesday, 10 February, 2021 03:00 PM
To: Nazef, Laura <Nazef.Laura@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Mills, Marc <mills.marc@epa.gov>
Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Patlewicz, Grace <Patlewicz.Grace@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>
Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Laura and Tony,

Would you be willing to speak to this issue on our call with MPART on Feb 25 from 10-11 AM? These are technical exchanges by EPA and MPART. We have a couple of other agenda topics in the works.

Thank you,
Lisa Matthews

From: Nazef, Laura <Nazef.Laura@epa.gov>

Sent: Wednesday, February 10, 2021 2:55 PM

To: Richard, Ann <Richard.Ann@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Mills, Marc <mills.marc@epa.gov>

Cc: McCabe, Erin <mccabe.erin@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Patlewicz, Grace <Patlewicz.Grace@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>

Subject: RE: EPA ORD-MPART Call on PFAS Destruction (Feb. 25)

Hi all,

In case this is helpful as you gather information for your call, there is a definition for long-chain perfluoroalkyl carboxylate (LCPFAC) chemicals in the recent TSCA SNUR:

<https://www.federalregister.gov/documents/2020/07/27/2020-13738/long-chain-perfluoroalkyl-carboxylate-and-perfluoroalkyl-sulfonate-chemical-substances-significant>

Here is the chemical structure definition used:

b) *Chemical substances and significant new uses subject to reporting.* (1) The chemical substances identified in this paragraph, where $5 < n < 21$ or $6 < m < 21$, are subject to reporting under this section for the significant new uses described in paragraph (b)(4)(i) and (b)(4)(iv) of this section.

(i) $\text{CF}_3(\text{CF}_2)_n\text{-COO M}$ where $\text{M} = \text{H}^+$ or any other group where a formal dissociation can be made;

(ii) $\text{CF}_3(\text{CF}_2)_n\text{-CH=CH}_2$;

(iii) $\text{CF}_3(\text{CF}_2)_n\text{-C(=O)-X}$, where X is any chemical moiety;

(iv) $\text{CF}_3(\text{CF}_2)_m\text{-CH}_2\text{-X}$, where X is any chemical moiety; and

(v) $\text{CF}_3(\text{CF}_2)_m\text{-Y-X}$, where Y = non-S, non-N heteroatom and where X is any chemical moiety.

Other offices may have additional information to share regarding PFAS definitions.

Best regards,
Laura

Laura Nazef
International Coordinator
Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
+1 (202) 564-7523
nazef.laura@epa.gov

From: Rodan, Bruce <rodan.bruce@epa.gov>
Sent: Tuesday, February 9, 2021 1:33 PM
To: Burden, Susan <Burden.Susan@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Lisa,

There have been some debates about defining PFAS – very minutia. Ann Richards in CCTE will know, and Marc Mills worked on a recent manuscript that we back and forth over the OECD definition.

Dr. Bruce Rodan
Associate Director for Science
EPA Office of Research and Development

From: Burden, Susan <Burden.Susan@epa.gov>
Sent: Tuesday, February 9, 2021 12:37 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Lisa,

Carlos Pachon is the lead in OLEM for the destruction and disposal guidance, so he would be the person to reach out to for the MPART call.

As far as EPA programs defining PFAS, I'm not aware of any EPA programs that have had to define PFAS "at the organic chemistry level" (i.e., not by CASRNs). I don't know that any of EPA's programs would have much to say about this issue at this point in time.

Thanks,

Susan

Susan Burden, Ph.D.
Scientific Support Advisor & ORD PFAS Executive Lead
Office of Science Advisor, Policy and Engagement
Office of Research and Development
US Environmental Protection Agency
Phone: (202) 564-6308 | Ex. 6 Personal Privacy (PP)
Email: burden.susan@epa.gov

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Tuesday, February 09, 2021 12:12 PM
To: Burden, Susan <Burden.Susan@epa.gov>
Cc: Rodan, Bruce <rodan.bruce@epa.gov>
Subject: FW: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Hi Susan,

Is the interim destruction guidance from OLEM? Who is point person in OLEM for this issue that we could invite to join the call with MPART?

Also thoughts on how EPA programs are defining PFAS?

Thanks,
Lisa

From: Sliver, Steve (EGLE) <SLIVERS@michigan.gov>
Sent: Tuesday, February 9, 2021 7:51 AM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Matthews, Lisa <Matthews.Lisa@epa.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>; taylorj1@michigan.gov
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning Lisa,

In addition, would it be possible for someone from EPA to cover next steps with the interim destruction guidance, especially the request for additional field testing and implementation of the interim storage option?

Following up on Joy's presentation of our working description of PFAS last time, we are also interested in how EPA is defining PFAS in its various programs (at the organic chemistry level), understanding that different EPA programs may define PFAS differently. Attached is a paper that provides additional detail on a description; MPART is currently evaluating this paper and determining its implications to the current working description.

Thanks!

Steve

From: Phelps, Lara <Phelps.Lara@epa.gov>
Sent: Monday, February 1, 2021 2:00 PM
To: Matthews, Lisa <Matthews.Lisa@epa.gov>; Sliver, Steve (EGLE) <SLIVERS@michigan.gov>; Watkins, Tim <Watkins.Tim@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>
Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: RE: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

| |
|--|
| CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov |
|--|

Hi Lisa –

The two immediate things that come to mind to mention are the AWMA IT3 Paper presented last week - Combustion of C1 and C2 PFAS: Kinetic Modeling and Experiments; and Other Test Method (OTM) – 45, which we will be talking to the larger ECOS community the week before, if there were some additional follow-up.

Thanks!
Lara

Lara P. Phelps, Director

Center for Environmental Measurement and Modeling, Air Methods & Characterization Division
U. S. Environmental Protection Agency, Office of Research and Development
109 T.W. Alexander Drive (E343-04), Research Triangle Park, NC 27711
Office: 919-541-5544 | Cell: Ex. 6 Personal Privacy (PP) | Email: phelps.lara@epa.gov

"Protecting human health and the environment by delivering innovative measurement and modeling solutions to EPA and its partners."

From: Matthews, Lisa <Matthews.Lisa@epa.gov>

Sent: Monday, February 01, 2021 11:59 AM

To: slivers@michigan.gov; Watkins, Tim <Watkins.Tim@epa.gov>; Phelps, Lara <Phelps.Lara@epa.gov>; Speth, Thomas <Speth.Thomas@epa.gov>

Cc: Zambrana, Jose <Zambrana.Jose@epa.gov>; Mattas-Curry, Lahne <Mattas-Curry.Lahne@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>

Subject: Call for Agenda topics: Feb. 25 EPA ORD-MPART-ORD Call on PFAS Destruction

Good morning,

We have our EPA ORD-MPART quarterly call on PFAS destruction research coming up on Thursday, February 25 from 10-11 AM ET.

Please send [Erin McCabe](#) and me your suggestions for agenda topics by **Monday, February 8** – including any new information to share with the group.

Agenda topics from past calls are listed below:

November 18, 2020

- MPART Working PFAS Description – *Joy Taylor Morgan, Michigan EGLE Air Quality Division's Toxics Unit*
- 6:2 FTS (fluorotelomer sulfonate) Screening Level for Air – *Mike Depa, Michigan EGLE, Air Quality Division's Toxics Unit*
- EPA ORD Research Updates – *Tim Watkins, Director, Center for Environmental Measurement and Modeling, EPA ORD*

August 26, 2020

- Treating PFAS water contamination with cold plasma – *Curt Wolf, University of Michigan*
- Thermal oxidizer design installed at the Chemours Fayetteville Works facility in NC – *Chun-Wai Lee and Bill Linak, EPA ORD*
- Australia cement kiln data for destruction of PFAS – *Chun-Wai Lee and Bill Linak, EPA ORD*
- Pilot scale testing on Rainbow Furnace – *Chun-Wai Lee and Bill Linak, EPA ORD*

June 25, 2020 follow-up call

- Participation in EPA's multi-lab study on a drinking water analytical method with isotope dilution (ultimately a DOD decision)
- Flexibility in drinking water analytical methods for residential wells
 - EPA will continue to only stand behind Methods 537 and 522, MPART can use other methods, but EPA can't comment on the validity of the data

May 28, 2020

- Bench-Scale Tests on Stabilization/Solidification of PFAS-Contaminated Soils and Biosolids – *Dan Cassidy, Western Michigan University*
- Update on EPA's PFAS Innovative Treatment Team – *Brian Gullett, EPA ORD*

- Managing PFAS in Spent Adsorption Media – *Craig Patterson, Tom Speth and Marc Mills, EPA ORD*

March 23, 2020

- ORD researchers discussed current and planned EPA PFAS research with the MPART. They are interested in EPA's PFAS destruction research and decontamination efforts, particularly for fire departments that have used AFFF. ORD provided overview of our PFAS thermal destruction research.

Thank you!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

US EPA Office of Research and Development

202-564-6669 (desk) Ex. 6 Personal Privacy (PP) cell)

matthews.lisa@epa.gov

Learn about EPA Research to support States at www.epa.gov/research-states.

Message

From: Butler, Tristan [Butler.Tristan@epa.gov]
Sent: 5/26/2021 7:58:04 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: OECD Comments
Attachments: OECA PFAS Definition_Commenter response_052621.docx

Hey Tracy,

I attached my answer's to ORDs comments that Tala asked us to address. I sent you some of my thoughts in a previous email, but recently made some revisions. This attachment is my most current thinking. Anyway, please let me know if there is anything else I can do to help! Thanks.

Tristan Butler, PhD
Chemist, Industrial Chemistry Branch
1201 Constitution Ave., NW
Washington, DC 20460

Message

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 8/11/2020 8:33:48 PM
To: Rexhepi, Doruntine [Rexhepi.Doruntine@epa.gov]
CC: Pritts, Jesse [Pritts.Jesse@epa.gov]; Born, Tom [Born.Tom@epa.gov]
Subject: RE: PFAS Importation Question
Attachments: PFAS - TSCA INV (2020-07) PLUS v4 (no CBI) .xlsx

Hello,

Please find attached an updated non-CBI spreadsheet. There are four sheets:

- Non-CBI substances added to the original Inventory
- Non-CBI substances later added the Inventory via a PMN
- CBI substances added to the original Inventory
- CBI substances later added the Inventory via a PMN

Information on the spreadsheet is from the Inventory and is limited. Other information (e.g., submitters, import vs manufacture) would need to be obtained from the notice that resulted in the substance being put on the Inventory, i.e., original Inventory reporting notices or PMNs. CDR notices will have some of this information as well.

The original Inventory reporting notices (mostly from 1978) are in a CBI microfiche collection back at the office. More recent PMNs are can be found in OPPT's Chemical Information System on our CBI lan; older PMNs are in archives. I've cc'd Susan Sharkey from our Chemical Control Division who can answer questions that you may have on CDR (Susan is the program manager).

Tracy

From: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Sent: Tuesday, August 11, 2020 3:21 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Pritts, Jesse <Pritts.Jesse@epa.gov>; Born, Tom <Born.Tom@epa.gov>
Subject: RE: PFAS Importation Question

Hello Tracy,

I just wanted to touch base with you once again on a more friendlier note as I continue understanding the TSCA inventory and the data it pertains.

As you may recall, you shared with us a list of PFAS compounds identified in the TSCA Inventory (a total of 1223 compounds: 603 active compounds and 456 inactive compounds). On that excel file, it was just a list of PFAS compounds, no additional information on who reported the data - similarly in the public TSCA Inventory.

- **Question:** Is there any way to **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

Again, when it comes to import, the statement you previously made was:

Ex. 5 Deliberative Process (DP)

Please feel free to pass along my email to any one that can help me in answering these questions.

Many thanks,
Doruntine

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Wednesday, April 22, 2020 9:25 PM
To: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Subject: RE: PFAS Importation Question

Hello,

The list is just PFAS. If it were all fluorinated compounds, it would be quite a bit larger. It was compiled by identifying substances on the TSCA Inventory that meet a general OPPT working definition of PFAS.

Hope that helps.

Tracy

From: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Sent: Wednesday, April 22, 2020 3:30 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tracy,

I was hoping you have an answer for me by the end of the day.

From: Rexhepi, Doruntine
Sent: Wednesday, April 22, 2020 10:13 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>
Cc: Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tracy,

Hope you and your family are safe and well.

The excel file you shared back in December, with a total of 1223 compounds (603 active compounds and 456 inactive compounds) - does that include all fluorinated compounds or just PFAS? How was the list compiled?

Many thanks,
Doruntine

From: Williamson, Tracy <Williamson.Tracy@epa.gov>

Sent: Thursday, December 5, 2019 3:43 PM

To: Born, Tom <Born.Tom@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>

Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Subject: RE: PFAS Importation Question

Some clarification ...

- **TSCA section 13.** TSCA requires that companies provide a TSCA compliance certification with chemical shipments into the US. Companies do not have to provide the chemical identities with shipments; they only have to certify (e.g., in CBP's ACE system, on invoices, and/or on other entry documentation) either that they are in compliance with TSCA or that TSCA does not apply. CBP is generally responsible for the implementing regulations on imports (apologies, its customs and I misspoke and said commerce), and CBP reviews the TSCA certifications that accompany shipments (but they will call us on occasion if they see something unusual and have a question). <https://www.epa.gov/tsc-import-export-requirements/tsc-requirements-importing-chemicals#tsc>.
- **TSCA section 5.** Notices submitted under section 5 are required for "new" chemicals that are not on the TSCA Inventory. Companies cannot commercialize a new chemical substance until after EPA review, so these notices are pre-commercial. Companies must, of course, provide specific chemical identities in their notices and indicate what kind of activity they *anticipate* engaging in – domestic manufacture, import, or both – if and when they do commercialize their substances after they clear EPA review. Once a chemical is on the Inventory, a company is not held to what it put in its section 5 notice regarding type of commercial activity, *unless the chemical's commercial activity is regulated by us* (e.g., import only). Other companies also can commercialize the same chemical after its put on the Inventory; they also would be held to any existing regulation(s).
- **TSCA section 8.** CDR submissions are required to be filed every few years for a subset of "existing" chemicals on the Inventory (PV thresholds as Tony mentioned) that were in recent commerce (e.g., for the 2016 CDR cycle, companies reported their chemicals in commerce in 2012 through 2015). Companies must provide the type of activity that the recent commercialization was – domestic manufacture, import, or both – in addition to other information.

From: Born, Tom <Born.Tom@epa.gov>

Sent: Thursday, December 5, 2019 1:47 PM

To: Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>

Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>

Subject: RE: PFAS Importation Question

Hi Toni,

Thank you for your reply. I thought Tracy said that importation reporting is required under Department of Commerce TSCA regulations, and that companies are only required to report if they import a TSCA listed chemical, but not required to report the name of the chemical or the amount of the chemical imported. I'm looking for a source we can cite that states this.

Thanks,

Tom

From: Krasnic, Toni <krasnic.toni@epa.gov>
Sent: Thursday, December 05, 2019 1:32 PM
To: Born, Tom <Born.Tom@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tom,

I think this is a CDR question. Under CDR, companies are required to report (if they meet production volume thresholds, see https://www.epa.gov/sites/production/files/2017-09/documents/cdr_basic_information-8.31.17-final.pdf) the names and quantities of PFAS compounds but names and PVs may be claimed CBI. I'm cc'ing Tom Smith in case you have additional questions about CDR.

Thanks,

Toni Krasnic
Existing Chemicals Branch
EPA/OCSP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

From: Born, Tom <Born.Tom@epa.gov>
Sent: Thursday, December 05, 2019 12:43 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Krasnic, Toni <krasnic.toni@epa.gov>; Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>
Subject: PFAS Importation Question

Hi Tracy,

Thank you again for giving us an overview of the TSCS inventory. In our final report we would like to

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| Ex. 5 Deliberative Process (DP) |
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| Ex. 5 Deliberative Process (DP) |
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 Is there

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|---------------------------------|
| Ex. 5 Deliberative Process (DP) |
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?

Thanks,

Tom

Ph: (202) 566-1001
Fax: (202) 566-1053

U.S. Environmental Protection Agency
Office of Water, Office of Science and Technology
Engineering and Analysis Division
Technology & Analytical Support Branch
Mailcode 4303T
1200 Pennsylvania Avenue, NW
Washington, DC 20460

FEDEX Address:

US EPA Engineering and Analysis Division (6231)
1301 Constitution Ave., NW
Washington, DC 20004

Effluent Guidelines: www.epa.gov/eg

Analytical Methods: www.epa.gov/cwa-methods

Message

From: Nguyen, Thuy [Nguyen.Thuy@epa.gov]
Sent: 3/26/2021 1:00:17 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]
Subject: RE: Question of Fluorination

Thanks Tracy
Thuy

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Thursday, March 25, 2021 6:07 PM
To: Butler, Tristan <Butler.Tristan@epa.gov>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: Question of Fluorination

I've added a few **caveats** below.

From: Butler, Tristan <Butler.Tristan@epa.gov>
Sent: Thursday, March 25, 2021 1:18 PM
To: Nguyen, Thuy <Nguyen.Thuy@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: Question of Fluorination

Thuy,

Here are the answers to your questions. Please let me know if there is anything else I can do to help. Thanks!

Do fluorinated HDPE containers have some type of fluoropolymer or other PFAS coating

Ex. 5 Deliberative Process (DP)

Does the fluorination process itself—exposing the plastic to fluorine atoms—create PFAS? –

Ex. 5 Deliberative Process (DP)

From: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Sent: Thursday, March 25, 2021 12:53 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Butler, Tristan <Butler.Tristan@epa.gov>
Subject: FW: Question of Fluorination

Tracy - I forgot to cc you

Tristan – There are actually 2 questions that I need your help in answering. Here the 2nd one

Does the fluorination process itself—exposing the plastic to fluorine atoms—create PFAS?

Ex. 5 Deliberative Process (DP)

Can you provide us with the answer before 2PM today?

This is in preparation for an interview with Bloomberg on Friday 3/26

Thanks

Thuy

From: Nguyen, Thuy

Sent: Thursday, March 25, 2021 12:19 PM

To: Butler, Tristan <Butler.Tristan@epa.gov>

Subject: Question of Fluorination

Hi Tristan

I know you had a write-up on the Inhance's fluorination process .

Can you help us answering the question below? From what I understand there is no PFAS coating, correct?

Thanks

Thuy

Ex. 5 Deliberative Process (DP)

Do fluorinated HDPE containers have some type of fluoropolymer or other PFAS coating?

Message

From: Passe, Loraine [Passe.Loraine@epa.gov]
Sent: 4/5/2021 4:45:04 PM
To: Le, Madison [Le.Madison@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]
CC: Edelstein, Rebecca [Edelstein.Rebecca@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Fehrenbacher, Cathy [Fehrenbacher.Cathy@epa.gov]
Subject: RE: Letter re: EPA approval of new PFAS under TSCA
Attachments: EPA response to Earthjustice PFAS letter_DRAFT_v1_PTSLO RE-lpCLEAN_ML -lp(003).docx

Hi Madison-

Responses to your comments are in attached. I'll send OGC our responses to their comments and then this should be ready to share with Tala.

Loraine Passe
New Chemicals Division
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Phone: (202) 564-9064

From: Le, Madison <Le.Madison@epa.gov>
Sent: Monday, April 5, 2021 10:40 AM
To: Passe, Loraine <Passe.Loraine@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Loraine,

I added a few comment bubbles. Can you take a quick look before sending up to Tala for review? Thanks.

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Passe, Loraine <Passe.Loraine@epa.gov>
Sent: Monday, April 5, 2021 10:02 AM
To: Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Le, Madison <Le.Madison@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Ryan-
Here's a redline and clean version incorporating your comments and those from OGC.

Next steps I believe are to share back with OGC and then Tala?

Loraine Passe
New Chemicals Division
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Phone: (202) 564-9064

From: Schmit, Ryan <schmit.ryan@epa.gov>
Sent: Monday, April 5, 2021 9:16 AM
To: Passe, Loraine <Passe.Loraine@epa.gov>
Cc: Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Le, Madison <Le.Madison@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Loraine,
A few additional comments from me on this one. Is the final SNUR at issue in the pipeline for sometime soon? I'll check with Tom Lalley in OPS on signature.
Thanks,
Ryan

From: Le, Madison <Le.Madison@epa.gov>
Sent: Wednesday, March 31, 2021 3:47 PM
To: Chandrasekaran, Devi <Chandrasekaran.Devi@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Payne, Allison <Payne.Allison@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Thanks, Devi.

Loraine is going to work with the team, including Ryan and we will get back to OGC if we have any questions. Thanks!

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Chandrasekaran, Devi <Chandrasekaran.Devi@epa.gov>
Sent: Tuesday, March 30, 2021 4:47 PM
To: Le, Madison <Le.Madison@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Payne, Allison <Payne.Allison@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Madison,

Attached are our comments & edits on the draft response. Let us know if you have questions or would like to discuss anything further.

Devi Chandrasekaran
Pesticides and Toxic Substances Law Office
Office of General Counsel
U.S. Environmental Protection Agency
202-564-7268

From: Chandrasekaran, Devi
Sent: Monday, March 29, 2021 9:45 AM
To: Le, Madison <Le.Madison@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Payne, Allison <Payne.Allison@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Madison,

We're taking a look at the letter and draft response and will get back to you with our comments.

Devi Chandrasekaran
Pesticides and Toxic Substances Law Office
Office of General Counsel
U.S. Environmental Protection Agency
202-564-7268

From: Le, Madison <Le.Madison@epa.gov>
Sent: Monday, March 29, 2021 6:55 AM
To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Chandrasekaran, Devi <Chandrasekaran.Devi@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Ryan and Chris/OGC,

Attach is the draft response per Tala's request (and original letter for reference). Please review and provide any suggested edits.

I'm not sure about timing on the response but Michal's email seem to indicate that we may want to signal something on EPA's policy approach for PFAS soonish.

Loraine - can you work with Ryan and OGC on next steps? Thanks.

Madison H. Le

Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Le, Madison
Sent: Friday, March 26, 2021 2:19 PM
To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Chandrasekaran, Devi <Chandrasekaran.Devi@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: FW: Letter re: EPA approval of new PFAS under TSCA
Importance: High

Chris,

Please see Tala's email below (and the attached letter).

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Any thoughts? We are free today if you have a few mins to talk through this. Thanks!

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Henry, Tala <Henry.Tala@epa.gov>
Sent: Friday, March 26, 2021 1:25 PM
To: Le, Madison <Le.Madison@epa.gov>
Cc: Collazo Reyes, Yvette <CollazoReyes.Yvette@epa.gov>; Freedhoff, Michal <Freedhoff.Michal@epa.gov>
Subject: FW: Letter re: EPA approval of new PFAS under TSCA

Madison,
Many/most/all of the signers of the letter are litigants in the PFAS Section 21 Petition.

Please have you team prepare a

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Thank you.

Tala R. Henry, Ph.D.
Deputy Director

Office of Pollution Prevention & Toxics

T: 202-564-2959

E: henry.tala@epa.gov

From: Jonathan Kalmuss-Katz <jkalmusskatz@earthjustice.org>

Sent: Friday, March 26, 2021 12:25 PM

To: Freedhoff, Michal <Freedhoff.Michal@epa.gov>

Cc: Tyler, Tom <Tyler.Tom@epa.gov>; Le, Madison <Le.Madison@epa.gov>; Henry, Tala <Henry.Tala@epa.gov>; Collazo Reyes, Yvette <CollazoReyes.Yvette@epa.gov>

Subject: Letter re: EPA approval of new PFAS under TSCA

Dear Assistant Administrator Freedhoff:

The 18 undersigned organizations submit this letter objecting to EPA's approval of new per- and polyfluoroalkyl substances (PFAS) and new uses of previously approved PFAS, as reflected most recently in EPA's March 10, 2021 Federal Register publication of "Certain New Chemicals or Significant New Uses; Statements of Findings for January through December 2020." For the reasons set forth in the letter, we urge EPA to stop approving PFAS under TSCA Section 5 and to address the flaws in EPA's new chemical review process that have facilitated the approval of prior PFAS.

If you have any questions about the attached letter, please don't hesitate to contact me.

Respectfully submitted,

Advance Carolina
Center for Environmental Health
Clean Cape Fear
Clean Haw River
Clean and Healthy New York
Defend Our Health
Democracy Green
Earthjustice
Environmental Defense Fund
Environmental Working Group
GreenCAPE
Merrimack Citizens for Clean Water
Mothers For Safe Air & Safe Water Force
Natural Resources Defense Council
Safer Chemicals Healthy Families
Sierra Club
Toxic Free North Carolina
Union of Concerned Scientists

Jonathan Kalmuss-Katz
Staff Attorney
Earthjustice Northeast Office
48 Wall Street, 15th Floor (note new floor)
New York, NY 10005
T: 212.823.4989
F: 212.918.1556
Pronouns: he/him/his
earthjustice.org

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If you think that you have received this email message in error, please notify the sender by reply email and
delete the message and any attachments.*

Message

From: Le, Madison [Le.Madison@epa.gov]
Sent: 4/5/2021 5:00:33 PM
To: Passe, Loraine [Passe.Loraine@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]
CC: Edelstein, Rebecca [Edelstein.Rebecca@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Fehrenbacher, Cathy [Fehrenbacher.Cathy@epa.gov]
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Thanks, Loraine for responding to my two comments.

Is it correct that the current version addressed/incorporated OGC edits/comments? If yes, then my recommendation is to send this version to Tala and OGC concurrently. My assumption is that OGC is not going to have more edits, and that the remaining flag on the PFAS paragraph is for Tala/Michal to decision based on timing of the announcements. I don't want to this to stuck in OGC queue if substantive no more changes will come from them (other than potential editorial ones).

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Passe, Loraine <Passe.Loraine@epa.gov>
Sent: Monday, April 5, 2021 12:45 PM
To: Le, Madison <Le.Madison@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
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Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Madison-

Responses to your comments are in attached. I'll send OGC our responses to their comments and then this should be ready to share with Tala.

Loraine Passe
New Chemicals Division
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Phone: (202) 564-9064

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Sent: Monday, April 5, 2021 10:40 AM
To: Passe, Loraine <Passe.Loraine@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
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Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Loraine,

I added a few comment bubbles. Can you take a quick look before sending up to Tala for review? Thanks.

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Passe, Loraine <Passe.Loraine@epa.gov>
Sent: Monday, April 5, 2021 10:02 AM
To: Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Le, Madison <Le.Madison@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Ryan-
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Next steps I believe are to share back with OGC and then Tala?

Loraine Passe
New Chemicals Division
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Phone: (202) 564-9064

From: Schmit, Ryan <schmit.ryan@epa.gov>
Sent: Monday, April 5, 2021 9:16 AM
To: Passe, Loraine <Passe.Loraine@epa.gov>
Cc: Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Le, Madison <Le.Madison@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Loraine,
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Ryan

From: Le, Madison <Le.Madison@epa.gov>
Sent: Wednesday, March 31, 2021 3:47 PM
To: Chandrasekaran, Devi <Chandrasekaran.Devi@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Payne, Allison <Payne.Allison@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Thanks, Devi.

Loraine is going to work with the team, including Ryan and we will get back to OGC if we have any questions. Thanks!

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSPP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Chandrasekaran, Devi <Chandrasekaran.Devi@epa.gov>
Sent: Tuesday, March 30, 2021 4:47 PM
To: Le, Madison <Le.Madison@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Payne, Allison <Payne.Allison@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Hi Madison,

Attached are our comments & edits on the draft response. Let us know if you have questions or would like to discuss anything further.

Devi Chandrasekaran
Pesticides and Toxic Substances Law Office
Office of General Counsel
U.S. Environmental Protection Agency
202-564-7268

From: Chandrasekaran, Devi
Sent: Monday, March 29, 2021 9:45 AM
To: Le, Madison <Le.Madison@epa.gov>; Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Schmit, Ryan <schmit.ryan@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Sadowsky, Don <Sadowsky.Don@epa.gov>; Payne, Allison <Payne.Allison@epa.gov>; Thaler, Elizabeth <thaler.elizabeth@epa.gov>
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Hi Madison,

We're taking a look at the letter and draft response and will get back to you with our comments.

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Pesticides and Toxic Substances Law Office
Office of General Counsel
U.S. Environmental Protection Agency
202-564-7268

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Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>; Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>

Subject: RE: Letter re: EPA approval of new PFAS under TSCA

Ryan and Chris/OGC,

Attach is the draft response per Tala's request (and original letter for reference). Please review and provide any suggested edits.

I'm not sure about timing on the response but Michal's email seem to indicate that we may want to signal something on EPA's policy approach for PFAS soonish.

Loraine - can you work with Ryan and OGC on next steps? Thanks.

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Le, Madison

Sent: Friday, March 26, 2021 2:19 PM

To: Kaczmarek, Chris <Kaczmarek.Chris@epa.gov>; Childs, Elizabeth <childs.elizabeth@epa.gov>; Chandrasekaran, Devi <Chandrasekaran.Devi@epa.gov>

Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>

Subject: FW: Letter re: EPA approval of new PFAS under TSCA

Importance: High

Chris,

Please see Tala's email below (and the attached letter).

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Any thoughts? We are free today if you have a few mins to talk through this. Thanks!

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT

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Cell: 202-507-3062

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Sent: Friday, March 26, 2021 1:25 PM
To: Le, Madison <Le.Madison@epa.gov>
Cc: Collazo Reyes, Yvette <CollazoReyes.Yvette@epa.gov>; Freedhoff, Michal <Freedhoff.Michal@epa.gov>
Subject: FW: Letter re: EPA approval of new PFAS under TSCA

Madison,
Many/most/all of the signers of the letter are litigants in the PFAS Section 21 Petition.
Please have you team prepare a

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Thank you.

Tala R. Henry, Ph.D.
Deputy Director
Office of Pollution Prevention & Toxics

T: 202-564-2959
E: henry.tala@epa.gov

From: Jonathan Kalmuss-Katz <jkalmusskatz@earthjustice.org>
Sent: Friday, March 26, 2021 12:25 PM
To: Freedhoff, Michal <Freedhoff.Michal@epa.gov>
Cc: Tyler, Tom <Tyler.Tom@epa.gov>; Le, Madison <Le.Madison@epa.gov>; Henry, Tala <Henry.Tala@epa.gov>; Collazo Reyes, Yvette <CollazoReyes.Yvette@epa.gov>
Subject: Letter re: EPA approval of new PFAS under TSCA

Dear Assistant Administrator Freedhoff:

The 18 undersigned organizations submit this letter objecting to EPA's approval of new per- and polyfluoroalkyl substances (PFAS) and new uses of previously approved PFAS, as reflected most recently in EPA's March 10, 2021 Federal Register publication of "Certain New Chemicals or Significant New Uses; Statements of Findings for January through December 2020." For the reasons set forth in the letter, we urge EPA to stop approving PFAS under TSCA Section 5 and to address the flaws in EPA's new chemical review process that have facilitated the approval of prior PFAS.

If you have any questions about the attached letter, please don't hesitate to contact me.

Respectfully submitted,

Advance Carolina
Center for Environmental Health
Clean Cape Fear
Clean Haw River
Clean and Healthy New York
Defend Our Health

Democracy Green
Earthjustice
Environmental Defense Fund
Environmental Working Group
GreenCAPE
Merrimack Citizens for Clean Water
Mothers For Safe Air & Safe Water Force
Natural Resources Defense Council
Safer Chemicals Healthy Families
Sierra Club
Toxic Free North Carolina
Union of Concerned Scientists

Jonathan Kalmuss-Katz
Staff Attorney
Earthjustice Northeast Office
48 Wall Street, 15th Floor (note new floor)
New York, NY 10005
T: 212.823.4989
F: 212.918.1556
Pronouns: he/him/his
earthjustice.org

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If you think that you have received this email message in error, please notify the sender by reply email and
delete the message and any attachments.*

Message

From: Chandrasekaran, Devi [Chandrasekaran.Devi@epa.gov]
Sent: 3/30/2021 8:46:51 PM
To: Le, Madison [Le.Madison@epa.gov]; Kaczmarek, Chris [Kaczmarek.Chris@epa.gov]; Childs, Elizabeth [childs.elizabeth@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]
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Subject: RE: Letter re: EPA approval of new PFAS under TSCA
Attachments: EPA response to Earthjustice PFAS letter_DRAFT_v1_PTSLO.docx

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Merrimack Citizens for Clean Water
Mothers For Safe Air & Safe Water Force
Natural Resources Defense Council
Safer Chemicals Healthy Families

Sierra Club
Toxic Free North Carolina
Union of Concerned Scientists

Jonathan Kalmuss-Katz
Staff Attorney
Earthjustice Northeast Office
48 Wall Street, 15th Floor (note new floor)
New York, NY 10005
T: 212.823.4989
F: 212.918.1556
Pronouns: he/him/his
earthjustice.org

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Message

From: Le, Madison [Le.Madison@epa.gov]
Sent: 3/29/2021 10:54:42 AM
To: Kaczmarek, Chris [Kaczmarek.Chris@epa.gov]; Childs, Elizabeth [childs.elizabeth@epa.gov]; Chandrasekaran, Devi [Chandrasekaran.Devi@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]
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Subject: RE: Letter re: EPA approval of new PFAS under TSCA
Attachments: image003.png; EPA response to Earthjustice PFAS letter_DRAFT_v1.docx; 2021.03.26 - Letter re EPA PFAS approvals.pdf

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GreenCAPE
Merrimack Citizens for Clean Water
Mothers For Safe Air & Safe Water Force
Natural Resources Defense Council
Safer Chemicals Healthy Families
Sierra Club
Toxic Free North Carolina
Union of Concerned Scientists

Jonathan Kalmuss-Katz
Staff Attorney
Earthjustice Northeast Office
48 Wall Street, 15th Floor (note new floor)
New York, NY 10005
T: 212.823.4989
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Pronouns: he/him/his
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<!--[if !vml]-->
<![endif]-->

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delete the message and any attachments.*

Message

From: Rexhepi, Doruntine [Rexhepi.Doruntine@epa.gov]
Sent: 4/23/2020 12:35:30 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: RE: PFAS Importation Question

Hi Tracy,

Thanks so much for getting back to me. I couldn't recall from our last meeting and just wanted to be sure.

Stay safe,
Doruntine

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Wednesday, April 22, 2020 9:25 PM
To: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Subject: RE: PFAS Importation Question

Hello,

The list is just PFAS. If it were all fluorinated compounds, it would be quite a bit larger. It was compiled by identifying substances on the TSCA Inventory that meet a general OPPT working definition of PFAS.

Hope that helps.

Tracy

From: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Sent: Wednesday, April 22, 2020 3:30 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tracy,

I was hoping you have an answer for me by the end of the day.

From: Rexhepi, Doruntine
Sent: Wednesday, April 22, 2020 10:13 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>
Cc: Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tracy,

Hope you and your family are safe and well.

The excel file you shared back in December, with a total of 1223 compounds (603 active compounds and 456 inactive compounds) - does that include all fluorinated compounds or just PFAS? How was the list compiled?

Many thanks,

Doruntine

From: Williamson, Tracy <Williamson.Tracy@epa.gov>

Sent: Thursday, December 5, 2019 3:43 PM

To: Born, Tom <Born.Tom@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>

Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Subject: RE: PFAS Importation Question

Some clarification ...

- **TSCA section 13.** TSCA requires that companies provide a TSCA compliance certification with chemical shipments into the US. Companies do not have to provide the chemical identities with shipments; they only have to certify (e.g., in CBP's ACE system, on invoices, and/or on other entry documentation) either that they are in compliance with TSCA or that TSCA does not apply. CBP is generally responsible for the implementing regulations on imports (apologies, its customs and I misspoke and said commerce), and CBP reviews the TSCA certifications that accompany shipments (but they will call us on occasion if they see something unusual and have a question). <https://www.epa.gov/tsca-import-export-requirements/tsca-requirements-importing-chemicals#tsca>.
- **TSCA section 5.** Notices submitted under section 5 are required for "new" chemicals that are not on the TSCA Inventory. Companies cannot commercialize a new chemical substance until after EPA review, so these notices are pre-commercial. Companies must, of course, provide specific chemical identities in their notices and indicate what kind of activity they *anticipate* engaging in – domestic manufacture, import, or both – if and when they do commercialize their substances after they clear EPA review. Once a chemical is on the Inventory, a company is not held to what it put in its section 5 notice regarding type of commercial activity, *unless the chemical's commercial activity is regulated by us* (e.g., import only). Other companies also can commercialize the same chemical after its put on the Inventory; they also would be held to any existing regulation(s).
- **TSCA section 8.** CDR submissions are required to be filed every few years for a subset of "existing" chemicals on the Inventory (PV thresholds as Tony mentioned) that were in recent commerce (e.g., for the 2016 CDR cycle, companies reported their chemicals in commerce in 2012 through 2015). Companies must provide the type of activity that the recent commercialization was – domestic manufacture, import, or both – in addition to other information.

From: Born, Tom <Born.Tom@epa.gov>

Sent: Thursday, December 5, 2019 1:47 PM

To: Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>

Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>

Subject: RE: PFAS Importation Question

Hi Toni,

Thank you for your reply. I thought Tracy said that importation reporting is required under Department of Commerce TSCA regulations, and that companies are only required to report if they import a TSCA listed chemical, but not required to report the name of the chemical or the amount of the chemical imported. I'm looking for a source we can cite that states this.

Thanks,

Tom

From: Krasnic, Toni <krasnic.toni@epa.gov>
Sent: Thursday, December 05, 2019 1:32 PM
To: Born, Tom <Born.Tom@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tom,

I think this is a CDR question. Under CDR, companies are required to report (if they meet production volume thresholds, see https://www.epa.gov/sites/production/files/2017-09/documents/cdr_basic_information-8.31.17-final.pdf) the names and quantities of PFAS compounds but names and PVs may be claimed CBI. I'm cc'ing Tom Smith in case you have additional questions about CDR.

Thanks,

Toni Krasnic
Existing Chemicals Branch
EPA/OCSP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

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Hi Tracy,

Thank you again for giving us an overview of the TSCS inventory. In our final report we would like to

| | |
|---------------------------------|--|
| Ex. 5 Deliberative Process (DP) | Ex. 5 Deliberative Process (DP) |
| Ex. 5 Deliberative Process (DP) | Is there Ex. 5 Deliberative Process (DP) |
| Ex. 5 Deliberative Process (DP) | ? |

Thanks,

Tom

Ph: (202) 566-1001
Fax: (202) 566-1053

U.S. Environmental Protection Agency
Office of Water, Office of Science and Technology
Engineering and Analysis Division
Technology & Analytical Support Branch
Mailcode 4303T
1200 Pennsylvania Avenue, NW
Washington, DC 20460

FEDEX Address:
US EPA Engineering and Analysis Division (6231)
1301 Constitution Ave., NW
Washington, DC 20004

Effluent Guidelines: www.epa.gov/eg

Analytical Methods: www.epa.gov/cwa-methods

Message

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Sent: 5/17/2021 4:46:09 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]; Le, Madison [Le.Madison@epa.gov]
Subject: RE: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues - OECD PFAS language from Tristan.

OMG. Yes, let's get you a new computer!

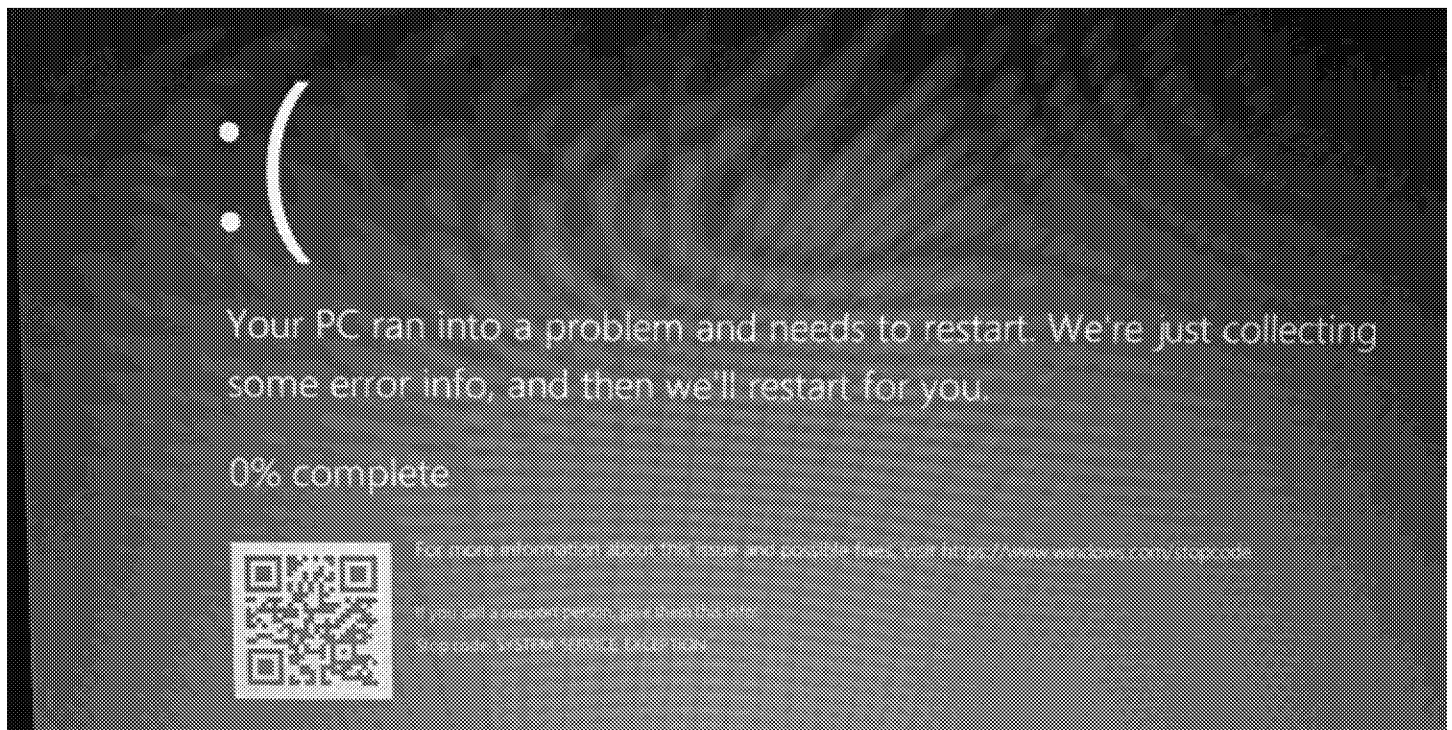
Cathy Fehrenbacher, CIH
Acting Deputy Director, New Chemicals Division
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., N.W. (7405M)
Washington, DC 20460

Phone: (202) 564-8551
Fax: (202) 564-7450
Deliveries: 1201 Constitution Ave N.W., room 6308A EPA East

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Monday, May 17, 2021 10:03 AM
To: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Le, Madison <Le.Madison@epa.gov>
Subject: RE: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues - OECD PFAS language from Tristan.

The text looks fine.

Apologies, this is how my day started (I start at 9:00) and I just now got my computer to finish booting properly. I'm going to put myself on the refresh list because this is getting to be a regular thing.



From: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>
Sent: Monday, May 17, 2021 9:29 AM
To: Le, Madison <Le.Madison@epa.gov>
Cc: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: FW: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues - OECD PFAS language from Tristan.

Madison, I spoke to Tristan and the highlighted language below is what he has prepared in response to Tala's comment. I am waiting to hear from Tracy (she starts work at 9:30), and I think this looks good.

Cathy

Cathy Fehrenbacher, CIH
Acting Deputy Director, New Chemicals Division
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
1200 Pennsylvania Ave., N.W. (7405M)
Washington, DC 20460

Phone: (202) 564-8551
Fax: (202) 564-7450
Deliveries: 1201 Constitution Ave N.W., room 6308A EPA East

From: Butler, Tristan <Butler.Tristan@epa.gov>
Sent: Monday, May 17, 2021 9:16 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>
Subject: FW: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues

Good Morning Tracy,

I talked with Cathy Fehrenbacher (cc'd on this email) about Madison's most recent request. We were thinking of using the few sentences below. Please let me or Cathy know if you think revisions are needed. Thanks!

Ex. 5 Deliberative Process (DP)

From: Le, Madison <Le.Madison@epa.gov>
Sent: Monday, May 17, 2021 8:27 AM
To: Butler, Tristan <Butler.Tristan@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Passe, Loraine <Passe.Loraine@epa.gov>
Subject: RE: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues

Tristan,

Can you draft a few sentences at a high level to summarize this OECD effort? We need that to add to the response to question #15. If Tracy is working today, please connect with her on the response. Thanks.

Madison H. Le

Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Butler, Tristan <Butler.Tristan@epa.gov>
Sent: Monday, May 17, 2021 7:50 AM
To: Le, Madison <Le.Madison@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Passe, Loraine <Passe.Loraine@epa.gov>
Subject: RE: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues

Good Morning Madison,

I have included the OECD PFAS definition below. It was taken from the 2020_PFAS terminology document attached to this email. Please let me know if you would like any clarifications or if there is anything else I can do to help. Thanks.

Tristan

From: Le, Madison <Le.Madison@epa.gov>
Sent: Monday, May 17, 2021 7:23 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>; Passe, Loraine <Passe.Loraine@epa.gov>
Subject: FW: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues
Importance: High

Tracy and Tristan – can you help with response for Ranking Member Capito #19 copied below? This is due by 10am today (sooner, if possible). Thanks!

15. What is a simple chemical description that is common to and describes all PFAS compounds?

EPA Response: President Biden highlighted the importance of and his commitment to tackling PFAS pollution and protecting public health and the environment. If confirmed, I am committed to addressing PFAS as a top priority for EPA.

Ex. 5 Deliberative Process (DP)

[DO WE] **Ex. 5 Deliberative Process (DP)** ?] – Tala

For instance,

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Le, Madison
Sent: Monday, May 17, 2021 7:17 AM
To: Passe, Loraine <Passe.Loraine@epa.gov>; Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>; Lee, Virginia <Lee.Virginia@epa.gov>; Hoffer, Danielle <hoffer.danielle@epa.gov>; Alwood, Jim <Alwood.Jim@epa.gov>
Cc: Fehrenbacher, Cathy <Fehrenbacher.Cathy@epa.gov>
Subject: Due Monday, 10am: FW: FOR ACTION MONDAY MORNING: QFR Outstanding Issues
Importance: High

RMB – please get the numbers for #9 and 14 copied below by 10am, today (sooner if possible). I've attached the full document for your reference only. Tala, Ryan and I worked on the NC related questions for Ranking Member Capito #9-14 and Senator Kramer #2 over the weekend. These have already been cleared and sent to OCSP IO.

9. TSCA provides EPA 90 days to review new chemicals, or with good cause for extension, 180 days. How many submissions does EPA currently have that were submitted greater than 90 days ago? 180 days?

EPA Response: EPA's New Chemicals program helps manage the potential risk to human health and the environment from chemicals new to the marketplace. **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

14. To prevent the government from slowing innovation, the previous Administration focused on reducing the backlog of new chemical applications, successfully reducing the new chemical backlog from over 450 cases to 183 cases by January 2021.

- What is the number of cases in the backlog today? Do you expect the backlog to increase given EPA's recently announced policy changes to new chemical reviews?
- How will you prevent increasing the backlog?

EPA Response: EPA's New Chemicals program helps manage the potential risk to human health and the environment from chemicals new to the marketplace. **Ex. 5 Deliberative Process (DP)**

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP) EPA is transparent about the status of new chemical reviews by providing monthly updates regarding the status of new chemical reviews on its website: <https://www.epa.gov/reviewing-new-chemicals-under-toxic-substances-control-act-tsca/statistics-new-chemicals-review>

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

Message

From: Le, Madison [Le.Madison@epa.gov]
Sent: 3/26/2021 6:19:20 PM
To: Kaczmarek, Chris [Kaczmarek.Chris@epa.gov]; Childs, Elizabeth [childs.elizabeth@epa.gov]; Chandrasekaran, Devi [Chandrasekaran.Devi@epa.gov]
CC: Passe, Loraine [Passe.Loraine@epa.gov]; Edelstein, Rebecca [Edelstein.Rebecca@epa.gov]; Lee, Virginia [Lee.Virginia@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]
Subject: FW: Letter re: EPA approval of new PFAS under TSCA
Attachments: 2021.03.26 - Letter re EPA PFAS approvals.pdf

Importance: High

Chris,

Please see Tala's email below (and the attached letter).

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Any thoughts? We are free today if you have a few mins to talk through this. Thanks!

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

From: Henry, Tala <Henry.Tala@epa.gov>
Sent: Friday, March 26, 2021 1:25 PM
To: Le, Madison <Le.Madison@epa.gov>
Cc: Collazo Reyes, Yvette <CollazoReyes.Yvette@epa.gov>; Freedhoff, Michal <Freedhoff.Michal@epa.gov>
Subject: FW: Letter re: EPA approval of new PFAS under TSCA

Madison,
Many/most/all of the signers of the letter are litigants in the PFAS Section 21 Petition.

Please have you team prepare a

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Thank you.

Tala R. Henry, Ph.D.
Deputy Director
Office of Pollution Prevention & Toxics

T: 202-564-2959

E: henry.tala@epa.gov

From: Jonathan Kalmuss-Katz <jkalmusskatz@earthjustice.org>

Sent: Friday, March 26, 2021 12:25 PM

To: Freedhoff, Michal <Freedhoff.Michal@epa.gov>

Cc: Tyler, Tom <Tyler.Tom@epa.gov>; Le, Madison <Le.Madison@epa.gov>; Henry, Tala <Henry.Tala@epa.gov>; Collazo Reyes, Yvette <CollazoReyes.Yvette@epa.gov>

Subject: Letter re: EPA approval of new PFAS under TSCA

Dear Assistant Administrator Freedhoff:

The 18 undersigned organizations submit this letter objecting to EPA's approval of new per- and polyfluoroalkyl substances (PFAS) and new uses of previously approved PFAS, as reflected most recently in EPA's March 10, 2021 Federal Register publication of "Certain New Chemicals or Significant New Uses; Statements of Findings for January through December 2020." For the reasons set forth in the letter, we urge EPA to stop approving PFAS under TSCA Section 5 and to address the flaws in EPA's new chemical review process that have facilitated the approval of prior PFAS.

If you have any questions about the attached letter, please don't hesitate to contact me.

Respectfully submitted,

Advance Carolina
Center for Environmental Health
Clean Cape Fear
Clean Haw River
Clean and Healthy New York
Defend Our Health
Democracy Green
Earthjustice
Environmental Defense Fund
Environmental Working Group
GreenCAPE
Merrimack Citizens for Clean Water
Mothers For Safe Air & Safe Water Force
Natural Resources Defense Council
Safer Chemicals Healthy Families
Sierra Club
Toxic Free North Carolina
Union of Concerned Scientists

Jonathan Kalmuss-Katz
Staff Attorney
Earthjustice Northeast Office
48 Wall Street, 15th Floor (note new floor)
New York, NY 10005
T: 212.823.4989
F: 212.918.1556
Pronouns: he/him/his
earthjustice.org



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ED_006319A_00045478-00002

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Message

From: Schechter, Kathryn [Schechter.Kathryn@epa.gov]
Sent: 2/23/2021 6:30:04 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]
CC: Butler, Tristan [Butler.Tristan@epa.gov]
Subject: FW: Questions about next weeks presentation on PFAS
Attachments: PFAS_Michigan.pptx

Here is what Tony was going to present. I think they just wanted ICB to present our working definition as kind of a lead in to his work. Should we just attend as observers then without slides? If so, would it be OK to answer definition questions?

Not sure what the dos and don'ts are for this....

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 10:39 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I might circulate these slides after the presentation but will focus on the lists on the day based on the amount of time left over for me to present. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure
U.S. Environmental Protection Agency
109 T.W. Alexander Drive
Room D131I, Mail Drop D143-02
Research Triangle Park, NC 27711

Office Phone: 919-541-1033
Mobile Phone: 919-698-0526

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 2:01 PM
To: Williams, Antony <Williams.Antony@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Here is what I am thinking – let me know if this is way off on your thoughts. I put this in to Tracy, but have not heard back from her yet. For the amount of time we have, I may just use slides 1-4.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)

1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 12:04 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Thanks Kathy...much appreciated. I will send you anything that I might prepare too based on what you send. I was thinking though primarily a live demo of PFAS on the dashboard.. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure
U.S. Environmental Protection Agency
109 T.W. Alexander Drive
Room D131I, Mail Drop D143-02
Research Triangle Park, NC 27711

Office Phone: 919-541-1033
Mobile Phone: 919-698-0526

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 11:40 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Glad to see we are on the same page. I do not have anything prepared slide wise, but I guess we could put something together. I will see what I can do this afternoon.

kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 11:36 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Comments below..

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 11:10 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I am not sure!

Ex. 5 Deliberative Process (DP)

Beyond describing what we are using for our working definition of PFAS...

Ex. 5 Deliberative Process (DP)

ICB mostly sees chemicals that are manufacture or imported. Are these recurring meetings that have different discussions as interests arise?

Ex. 5 Deliberative Process (DP)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Friday, February 19, 2021 12:33 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: Questions about next weeks presentation on PFAS

Hi both,

We are scheduled to be on the agenda next week presenting on PFAS to Michigan. I was wondering what you would be presenting on and hpw you think we should split the 15 minutes allocated to us? Thanks

Antony J. Williams
Center for Computational Toxicology and Exposure
U.S. Environmental Protection Agency
109 T.W. Alexander Drive
Room D131I, Mail Drop D143-02
Research Triangle Park, NC 27711

Office Phone: 919-541-1033
Mobile Phone: Ex. 6 Personal Privacy (PP)

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Thursday, February 11, 2021 1:34 PM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>; Pachon, Carlos <Pachon.Carlos@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: draft agenda EPA-MPART Call on Feb 25

Hi All,

Attached is the draft agenda for our quarterly call with the Michigan PFAS Action Response Team on Feb. 25.

Please send [Erin McCabe](#) and me any changes or missing agenda topic descriptions by **COB Tuesday, February 16**.

Thank you for your participation in this call!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

US EPA Office of Research and Development

202-564-6669 (desk) Ex. 6 Personal Privacy (PP) cell)

matthews.lisa@epa.gov

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Message

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 8/14/2020 4:58:57 PM
To: Cheatham, Tony [Cheatham.Tony@epa.gov]
CC: Rexhepi, Doruntine [Rexhepi.Doruntine@epa.gov]
Subject: FW: PFAS Importation Question

Hi Tony,

Doruntine has some questions about accessing CBI lan systems. Do you have someone that can work with her? Thanks.

Tracy

From: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Sent: Wednesday, August 12, 2020 10:10 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Pritts, Jesse <Pritts.Jesse@epa.gov>; Born, Tom <Born.Tom@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tracy,

Thanks so much for getting back to me, and sending us an update on that TSCA Inventory PFAS file.

It seems that the only thing we can look at the moment (virtually) are the PMNs on the Chemical Information System. However, when I sign into my CBI lan, I don't see an icon for that system – do I need special permission to acquire it? If so, could you point me to the right person to help me?

Susan Sharkey wasn't CC-ed on the last email, but should I need to reach out to her, I'll make sure to refer to this email.

Thanks,
Doruntine

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Tuesday, August 11, 2020 4:34 PM
To: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Cc: Pritts, Jesse <Pritts.Jesse@epa.gov>; Born, Tom <Born.Tom@epa.gov>
Subject: RE: PFAS Importation Question

Hello,

Please find attached an updated non-CBI spreadsheet. There are four sheets:

- Non-CBI substances added to the original Inventory
- Non-CBI substances later added the Inventory via a PMN
- CBI substances added to the original Inventory
- CBI substances later added the Inventory via a PMN

Information on the spreadsheet is from the Inventory and is limited. Other information (e.g., submitters, import vs manufacture) would need to be obtained from the notice that resulted in the substance being put on the Inventory, i.e., original Inventory reporting notices or PMNs. CDR notices will have some of this information as well.

The original Inventory reporting notices (mostly from 1978) are in a CBI microfiche collection back at the office. More recent PMNs are can be found in OPPT's Chemical Information System on our CBI lan; older PMNs are in archives. I've cc'd Susan Sharkey from our Chemical Control Division who can answer questions that you may have on CDR (Susan is the program manager).

Tracy

From: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Sent: Tuesday, August 11, 2020 3:21 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Pritts, Jesse <Pritts.Jesse@epa.gov>; Born, Tom <Born.Tom@epa.gov>
Subject: RE: PFAS Importation Question

Hello Tracy,

I just wanted to touch base with you once again on a more friendlier note as I continue understanding the TSCA inventory and the data it pertains.

Ex. 5 Deliberative Process (DP)

Please feel free to pass along my email to any one that can help me in answering these questions.

Many thanks,
Doruntine

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Wednesday, April 22, 2020 9:25 PM
To: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Subject: RE: PFAS Importation Question

Hello,

The list is just PFAS. If it were all fluorinated compounds, it would be quite a bit larger. It was compiled by identifying substances on the TSCA Inventory that meet a general OPPT working definition of PFAS.

Hope that helps.

Tracy

From: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>
Sent: Wednesday, April 22, 2020 3:30 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tracy,

I was hoping you have an answer for me by the end of the day.

From: Rexhepi, Doruntine
Sent: Wednesday, April 22, 2020 10:13 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>; Born, Tom <Born.Tom@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>
Cc: Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>
Subject: RE: PFAS Importation Question

Hi Tracy,

Hope you and your family are safe and well.

The excel file you shared back in December, with a total of 1223 compounds (603 active compounds and 456 inactive compounds) - does that include all fluorinated compounds or just PFAS? How was the list compiled?

Many thanks,
Doruntine

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Thursday, December 5, 2019 3:43 PM
To: Born, Tom <Born.Tom@epa.gov>; Krasnic, Toni <krasnic.toni@epa.gov>
Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: PFAS Importation Question

Some clarification ...

- TSCA section 13. TSCA requires that companies provide a TSCA compliance certification with chemical shipments into the US. Companies do not have to provide the chemical identities with shipments; they only have to certify (e.g., in CBP's ACE system, on invoices, and/or on other entry documentation) either that they are in compliance with TSCA or that TSCA does not apply. CBP is generally responsible for the implementing regulations on imports (apologies, its customs and I misspoke and said commerce), and CBP reviews the TSCA certifications that accompany shipments (but they will call us on occasion if they see something unusual and have a question). <https://www.epa.gov/tsca-import-export-requirements/tsca-requirements-importing-chemicals#tsca>.

- TSCA section 5. Notices submitted under section 5 are required for “new” chemicals that are not on the TSCA Inventory. Companies cannot commercialize a new chemical substance until after EPA review, so these notices are pre-commercial. Companies must, of course, provide specific chemical identities in their notices and indicate what kind of activity they *anticipate* engaging in – domestic manufacture, import, or both – if and when they do commercialize their substances after they clear EPA review. Once a chemical is on the Inventory, a company is not held to what it put in its section 5 notice regarding type of commercial activity, *unless the chemical’s commercial activity is regulated by us* (e.g., import only). Other companies also can commercialize the same chemical after its put on the Inventory; they also would be held to any existing regulation(s).
- TSCA section 8. CDR submissions are required to be filed every few years for a subset of “existing” chemicals on the Inventory (PV thresholds as Tony mentioned) that were in recent commerce (e.g., for the 2016 CDR cycle, companies reported their chemicals in commerce in 2012 through 2015). Companies must provide the type of activity that the recent commercialization was – domestic manufacture, import, or both – in addition to other information.

From: Born, Tom <Born.Tom@epa.gov>

Sent: Thursday, December 5, 2019 1:47 PM

To: Krasnic, Toni <krasnic.toni@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>

Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>

Subject: RE: PFAS Importation Question

Hi Toni,

Thank you for your reply. I thought Tracy said that importation reporting is required under Department of Commerce TSCA regulations, and that companies are only required to report if they import a TSCA listed chemical, but not required to report the name of the chemical or the amount of the chemical imported. I’m looking for a source we can cite that states this.

Thanks,

Tom

From: Krasnic, Toni <krasnic.toni@epa.gov>

Sent: Thursday, December 05, 2019 1:32 PM

To: Born, Tom <Born.Tom@epa.gov>; Williamson, Tracy <Williamson.Tracy@epa.gov>

Cc: Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>; Smith, ThomasA <smith.thomasa@epa.gov>

Subject: RE: PFAS Importation Question

Hi Tom,

I think this is a CDR question. Under CDR, companies are required to report (if they meet production volume thresholds, see https://www.epa.gov/sites/production/files/2017-09/documents/cdr_basic_information-8.31.17-final.pdf) the names and quantities of PFAS compounds but names and PVs may be claimed CBI. I’m cc’ing Tom Smith in case you have additional questions about CDR.

Thanks,

Toni Krasnic

Existing Chemicals Branch

EPA/OCSPP/OPPT/CCD/ECB

WJC East, 4134D | (202) 564-0984

From: Born, Tom <Born.Tom@epa.gov>
Sent: Thursday, December 05, 2019 12:43 PM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Krasnic, Toni <krasnic.toni@epa.gov>; Rexhepi, Doruntine <Rexhepi.Doruntine@epa.gov>; Steve Geil <steve.geil@erg.com>; Ryan Novak <Ryan.novak@erg.com>
Subject: PFAS Importation Question

Hi Tracy,

Thank you again for giving us an overview of the TSCS inventory. In our final report we would like to c

Ex. 5 Deliberative Process (DP)

Is there

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

?

Thanks,

Tom

Ph: (202) 566-1001
Fax: (202) 566-1053

U.S. Environmental Protection Agency
Office of Water, Office of Science and Technology
Engineering and Analysis Division
Technology & Analytical Support Branch
Mailcode 4303T
1200 Pennsylvania Avenue, NW
Washington, DC 20460

FEDEX Address:
US EPA Engineering and Analysis Division (6231)
1301 Constitution Ave., NW
Washington, DC 20004

Effluent Guidelines: www.epa.gov/eg
Analytical Methods: www.epa.gov/cwa-methods

Appointment

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 2/23/2021 8:57:21 PM
To: Schechter, Kathryn [Schechter.Kathryn@epa.gov]

Subject: FW: Questions about next weeks presentation on PFAS
Location: Microsoft Teams Meeting

Start: 2/23/2021 9:00:00 PM
End: 2/23/2021 9:10:00 PM
Show Time As: Tentative

Importance: High

Required Attendees: Schechter, Kathryn

From: Schechter, Kathryn
Sent: Tuesday, February 23, 2021 1:30 PM
To: Williamson, Tracy
Cc: Butler, Tristan
Subject: FW: Questions about next weeks presentation on PFAS
Attachments: PFAS_Michigan.pptx

Here is what Tony was going to present. I think they just wanted ICB to present our working definition as kind of a lead in to his work. Should we just attend as observers then without slides? If so, would it be OK to answer definition questions?

Not sure what the dos and don'ts are for this....

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 10:39 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I might circulate these slides after the presentation but will focus on the lists on the day based on the amount of time left over for me to present. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure

U.S. Environmental Protection Agency
109 T.W. Alexander Drive

Room D131I, Mail Drop D143-02

Research Triangle Park, NC 27711

Office Phone: 919-541-1033

Mobile Phone Ex. 6 Personal Privacy (PP)

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 2:01 PM
To: Williams, Antony <Williams.Antony@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Here is what I am thinking – let me know if this is way off on your thoughts. I put this in to Tracy, but have not heard back from her yet. For the amount of time we have, I may just use slides 1-4.

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Monday, February 22, 2021 12:04 PM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

Thanks Kathy...much appreciated. I will send you anything that I might prepare too based on what you send. I was thinking though primarily a live demo of PFAS on the dashboard.. Cheers

Antony J. Williams
Center for Computational Toxicology and Exposure

U.S. Environmental Protection Agency
109 T.W. Alexander Drive

Room D131I, Mail Drop D143-02

Research Triangle Park, NC 27711

Office Phone: 919-541-1033

Mobile Phone Ex. 6 Personal Privacy (PP)

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>

Sent: Monday, February 22, 2021 11:40 AM

To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>

Subject: RE: Questions about next weeks presentation on PFAS

Glad to see we are on the same page. I do not have anything prepared slide wise, but I guess we could put something together. I will see what I can do this afternoon.

kathy

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>

Sent: Monday, February 22, 2021 11:36 AM

To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>

Subject: RE: Questions about next weeks presentation on PFAS

Comments below..

From: Schechter, Kathryn <Schechter.Kathryn@epa.gov>
Sent: Monday, February 22, 2021 11:10 AM
To: Williams, Antony <Williams.Antony@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: RE: Questions about next weeks presentation on PFAS

I am not sure!

Ex. 5 Deliberative Process (DP)

Beyond describing what we are using for our working definition of PFAS...

Ex. 5 Deliberative Process (DP)

ICB mostly sees chemicals that are manufacture or imported. Are these recurring meetings that have different discussions as interests arise?

Ex. 5 Deliberative Process (DP)

Dr. Kathy Schechter
Chemist, Industrial Chemistry Branch (MC-7406M)
1201 Constitution Ave., NW
Washington, DC 20460
Telephone: (202) 564-8589
Fax: (202) 564-8679

From: Williams, Antony <Williams.Antony@epa.gov>
Sent: Friday, February 19, 2021 12:33 AM
To: Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>
Subject: Questions about next weeks presentation on PFAS

Hi both,

We are scheduled to be on the agenda next week presenting on PFAS to Michigan. I was wondering what you would be presenting on and how you think we should split the 15 minutes allocated to us?
Thanks

Antony J. Williams
Center for Computational Toxicology and Exposure
U.S. Environmental Protection Agency
109 T.W. Alexander Drive

Room D131I, Mail Drop D143-02

Research Triangle Park, NC 27711

Office Phone: 919-541-1033

Mobile Phone: Ex. 6 Personal Privacy (PP)

Try out the [CompTox Chemicals Dashboard](#) and access data for 882,000 chemical substances

HOT OFF THE PRESS ["Revisiting Five Years of CASMI Contests with EPA Identification Tools"](#)

From: Matthews, Lisa <Matthews.Lisa@epa.gov>
Sent: Thursday, February 11, 2021 1:34 PM
To: Phelps, Lara <Phelps.Lara@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Williams, Antony <Williams.Antony@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Butler, Tristan <Butler.Tristan@epa.gov>; Pachon, Carlos <Pachon.Carlos@epa.gov>
Cc: Watkins, Tim <Watkins.Tim@epa.gov>; Richard, Ann <Richard.Ann@epa.gov>; Nazef, Laura <Nazef.Laura@epa.gov>; Burden, Susan <Burden.Susan@epa.gov>; McCabe, Erin <mccabe.erin@epa.gov>
Subject: draft agenda EPA-MPART Call on Feb 25

Hi All,

Attached is the draft agenda for our quarterly call with the Michigan PFAS Action Response Team on Feb. 25.

Please send [Erin McCabe](#) and me any changes or missing agenda topic descriptions by **COB Tuesday, February 16**.

Thank you for your participation in this call!

Lisa

Lisa Matthews

Senior Advisor and State Liaison

US EPA Office of Research and Development

202-564-6669 (desk) | Ex. 6 Personal Privacy (PP) cell)

matthews.lisa@epa.gov

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Message

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 2/26/2021 8:36:48 PM
To: Le, Madison [Le.Madison@epa.gov]
Subject: FW: 3 PFAS adds to CFR

FYI. I'm still digesting this but probably need to respond.

From: Turk, David <Turk.David@epa.gov>
Sent: Friday, February 26, 2021 3:13 PM
To: Henry, Tala <Henry.Tala@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Cc: Williamson, Tracy <Williamson.Tracy@epa.gov>; Ruedy, Daniel <Ruedy.Daniel@epa.gov>
Subject: RE: 3 PFAS adds to CFR

Tala,

I haven't caught up on everything, but here's some info that I think will be useful. Ahead of my sending this email, Tyler and I did have a chance to talk briefly, and, along with my feedback, I'm including some feedback he provided below. I'll be unavailable after I hit send; in case further TRI-related Qs arise, I added Daniel who is also familiar with the TRI PFAS addition.

TRI:

Short Answer: The long-chain SNUR triggered the addition of three PFAS to TRI. We have not yet incorporated the TRI portion of the CFR to include these three PFAS. The SNUR specifically included Perfluorooctyl iodide, which is why it is being added to TRI. It does not fit the historic SNUR definition but the recent SNUR specifically added it via a table.

Longer Answer (same info as above but wordier):

Based on the conversations we had with ICB and ECB following the initial enactment of the NDAA, it was determined that this chemical did not meet the formulas provided by the .10536. IT was one of the PFAS that we specifically did not add for this reason. **HOWEVER**, the 2020 final SNUR added a "Table 1" and "Table 2" for .10536 that specifically lists and thus incorporates certain PFAS. Not all of the PFAS in this table fit the formulas in .10536. For example, Perfluorooctyl iodide is listed in Table 1 and thus is part of the SNUR. It does not meet the formula thus it was not part of the initial 172 TRI PFAS but is now on the TRI list due to its inclusion in the SNUR via Table 1 being incorporated into 10536. Potassium perfluorooctanoate (2395-00-8) and Silver(I) perfluorooctanoate (335-93-3) are listed in Table 2.

PFAS 8(a)(7) Definition: This is the definition that we've been using in the 8(a)(7) PFAS data reporting proposal: For the purposes of this proposed action, the structural definition of PFAS includes per- and polyfluorinated substances that structurally contain the unit R-(CF₂)-C(F)(R')R''. Both the CF₂ and CF moieties are saturated carbons and none of the R groups (R, R' or R'') can be hydrogen.

This is from Tyler re: the marked-up document:

Ex. 5 Deliberative Process (DP)

Additionally, the LCPFC SNUR modified both 721.9582 and 721.10536. The PFAS added to TRI were specifically included under 721.10536

-Dave (and Tyler)

From: Henry, Tala <Henry.Tala@epa.gov>
Sent: Friday, February 26, 2021 1:21 PM
To: Turk, David <Turk.David@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Cc: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: 3 PFAS adds to CFR
Importance: High

In some TA that OCIR is revisiting it says:

(5) PERFLUOROALKYL OR POLYFLUOROALKYL SUBSTANCE.—The term “perfluoroalkyl or polyfluoroalkyl substance” means a perfluoroalkyl substance or a polyfluoroalkyl substance that is—
(A) manmade; and
(B) has at least 1 fully fluorinated carbon atom.

And OPPT previously commented:

Note: (B) is consistent with sec. 7321(b)(1)(E) and (C)(1)(a)(i) from the TRI provisions in the FY 2020 NDAA

I thought the OPPT “working definition” was that had to have at least TWO fully fluorinated carbons???

Tala R. Henry, Ph.D.
Deputy Director
Office of Pollution Prevention & Toxics

T: 202-564-2959
E: henry.tala@epa.gov

From: Henry, Tala
Sent: Friday, February 26, 2021 1:17 PM
To: Dave Turk (Turk.David@epa.gov) <Turk.David@epa.gov>; Lloyd, Tyler <Lloyd.Tyler@epa.gov>; Wolf, Joel <Wolf.Joel@epa.gov>
Subject: 3 PFAS adds to CFR

As result of the LCPFC SNUR...are they added to 721.9582 or 721.10536 or some to each/both?

Tala R. Henry, Ph.D.
Deputy Director
Office of Pollution Prevention & Toxics

T: 202-564-2959
E: henry.tala@epa.gov

Message

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 3/3/2021 3:30:00 PM
To: Le, Madison [Le.Madison@epa.gov]
Subject: RE: can you confirm that you can attend the 11am NCD weekly with Tala?

I can attend

From: Le, Madison <Le.Madison@epa.gov>
Sent: Wednesday, March 3, 2021 10:19 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: can you confirm that you can attend the 11am NCD weekly with Tala?

First agenda is the PFAS definition effort.

Madison H. Le
Division Director
New Chemicals Division
USEPA/OCSP/OPPT
Direct: 202-564-5754
Cell: 202-507-3062

Message

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 4/14/2021 3:25:31 PM
To: Butler, Tristan [Butler.Tristan@epa.gov]
Subject: RE: OCSPP News for April 13, 2021

Ex. 5 Deliberative Process (DP)

sely

From: Butler, Tristan <Butler.Tristan@epa.gov>
Sent: Wednesday, April 14, 2021 7:23 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Subject: RE: OCSPP News for April 13, 2021

Ex. 5 Deliberative Process (DP)

From: Williamson, Tracy <Williamson.Tracy@epa.gov>
Sent: Tuesday, April 13, 2021 10:12 PM
To: Butler, Tristan <Butler.Tristan@epa.gov>
Subject: FW: OCSPP News for April 13, 2021

Oh boy ...

From: OCSPPNews <OCSPPNews@epa.gov>
Sent: Tuesday, April 13, 2021 4:58 PM
To: **Subject:** OCSPP News for April 13, 2021

OCSPP Daily News Round-Up

General EPA

- Inside EPA 04/13; [Ewire: Top EPA officials ask staff to report political interference to OIG](#)

Toxics

- Bloomberg Law 04/13; [Better PFAS Definition Needed by EPA, States Tell Agency](#)
- Consumer Reports 04/13; [Federal Lawmakers Push Bill to Tackle PFAS Contamination in Drinking Water](#)
- Inside TSCA 04/12; [Birnbaum Warns Of Narrow Exposure Focus In Draft PFAS Monitoring Bill](#)
- Inside TSCA 04/12; [Industry Wins More Time To Comment On OSHA Chemical Hazard Rule](#)
- Inside TSCA 04/12; [EPA Nears Settlement In Litigation Over CDR Asbestos Reporting Mandate](#)

Pesticides

- Capital Press 04/13; [\\$1.25 million in chlorpyrifos alternatives funding clears initial Oregon hurdle](#)
- Perishable News 04/13; [Walmart Announces Industry-Leading Policy to Protect Pollinators From Pesticides](#)

COVID/Disinfectants

- E&E News 04/13; [Could EPA-approved 'fog juice' bring Broadway back?](#)
- Rochester First WROC 04/13; [Updated guidance for COVID disinfecting](#)

Blog/OpEd/Other

- Bergeson & Campbell Blogs 04/12; [EPA Announces Request for Public Input on the Current Pesticide Exemption Provision Process](#)
- Bergeson & Campbell Blogs 04/12; [EPA Issues SSURO against ViaClean Technologies for Making Inaccurate Health Claims about Its Pesticide Product](#)
- Beyond Pesticides Blog 04/13; ["No Pollinator is Safe" — New Evidence of Neonicotinoids Harming Wild, Ground Nesting Bees](#)
- VeryWell Health 04/12; [Does Glyphosate Cause Cancer?](#)

+++++

Ewire: Top EPA officials ask staff to report political interference to OIG

N/A, Inside EPA

<https://insideepa.com/daily-feed/ewire-top-epa-officials-ask-staff-report-political-interference-oig>

Top EPA officials are urging staff to tell the Office of Inspector General (OIG) of past incidents where political leaders overruled or retaliated against them, to inform a report expected this summer that the Biden administration hopes to use as evidence that it is reversing a Trump-era pattern of interference in scientific work.

Citing “An EPA employee who wasn’t authorized to speak publicly,” Bloomberg Law writes that Administrator Michael Regan, acting chemicals office chief Michal Freedhoff and Scientific Integrity Official Francesca Grifo all spoke at an April 12 meeting to ask staff to aid OIG in its investigation.

Specifically, the article says, Freedhoff said employees should tell either the watchdog office or senior leaders at the agency about “political officials kicking you out of meetings, telling you to exclude data or alter scientific conclusions.”

The OIG investigation is one of several projects launched by Biden EPA officials to identify and reverse past agency actions where political officials allegedly overruled or ignored staffers’ scientific judgment, including a sweeping review of science integrity practices that Regan ordered in March.

Regan has also taken the rare step of dismissing all members from two key scientific advisory panels -- the Science Advisory Board and Clean Air Scientific Advisory Committee -- to “reset” them and undo the impact of what he described as “process irregularities” under the Trump administration.

And Freedhoff in a March 10 staff memo identified three actions from the Trump-era chemicals office as the product of “political interference” -- the risk evaluation of the common solvent trichloroethylene (TCE), the 2018 registration of the herbicide dicamba, and a toxicity assessment of the chemical perfluorobutane sulfonic acid (PFBS), which the agency has withdrawn and re-issued.

Bloomberg writes that the EPA officials framed their April 12 outreach to staff as “an attempt by the Biden administration to ensure that the EPA is meeting its mission to let scientists speak freely and air their conclusions, even if their findings and opinions don’t match up with agency policy goals.”

Specifically, it says, Regan told attendees that “over the last few years, you may have felt that the guiding purpose that first led you here veered temporarily off course.”

But he and Grifo also sought to emphasize that their new scientific integrity push, and the slogan that “science is back” at EPA, are targeted at actions by political leaders rather than actions by staffers themselves.

“We know you’ve been here the whole time,” it quotes Grifo as saying. “We’re judging the direction that has sometimes been provided over the past few years.”

Better PFAS Definition Needed by EPA, States Tell Agency

Pat Rizzuto, Bloomberg Law

<https://news.bloomberglaw.com/environment-and-energy/better-pfas-definition-needed-by-epa-states-tell-agency>

The EPA doesn’t have a single agency-wide definition of per- and polyfluoroalkyl substances, or PFAS, which is prompting state officials to push it to adopt one.

Different Environmental Protection Agency offices are using different working definitions of PFAS, Catherine Aubee, an EPA pesticide registration officer, told state pesticide officials Monday.

“We’re trying to see what they mean and see if we can reach a common definition for different programs and what it means for pesticides,” she said.

On a website with its master list of thousands of PFAS substance, the EPA says: “There is no precisely clear definition of what constitutes a PFAS substance given the inclusion of partially fluorinated substances, polymers, and ill-defined reaction products on these various lists.”

The absence of an EPA-wide definition became apparent as the pesticide office tackled the mysterious discovery of PFAS in some mosquito-control products even though the chemicals detected were not approved as pesticide ingredients, said Kerry Leifer, a branch chief within EPA’s pesticides office.

States pesticide regulators need a consistent federal definition, which would help them determine what products could be banned through state legislation, Megan Patterson, pesticides director within Maine’s Department of Agriculture, Conservation and Forestry, said Tuesday.

‘One of the Biggest Questions’

Maine’s legislature, for example, is considering a bill, L.D. 264, that would ban aerial spraying of pesticides that contain PFAS. The bill defines the chemicals broadly as “any member of the class of fluorinated organic chemicals containing at least one fully fluorinated carbon atom,” Patterson said.

That definition differs from the one the EPA's pesticide office has been using, according to Leifer. The pesticide office initially defined PFAS as compounds with known toxicities such as perfluorooctane sulfonate, or PFOS, perfluorooctanoic acid, or PFOA, and GenX, or hexafluoropropylene oxide dimer acid and its ammonium salt, he said.

The agency-wide discussion may change that, said Kimberly Nesci, a division director in EPA's pesticide office.

EPA's definition of PFAS "is one of the biggest questions we need answered so we can move forward and know what we're dealing with," said Amy Sullivan, executive secretary for the State FIFRA Issues Research and Evaluation Group (SFIREG), which hosted the meeting on Monday and Tuesday.

FIFRA, the Federal Insecticide, Fungicide, and Rodenticide Act, covers pesticides.

Federal Lawmakers Push Bill to Tackle PFAS Contamination in Drinking Water

Ryan Felton, Consumer Reports

<https://www.consumerreports.org/water-contamination/pfas-contamination-in-drinking-water-pfas-action-act/>

The PFAS Action Act would require the EPA to quickly set new standards for these 'forever chemicals'

Lawmakers in the U.S. House of Representatives introduced a bill on Tuesday that would require the Environmental Protection Agency to start regulating PFAS chemicals in drinking water and declare them hazardous substances, steps that would allow for the cleanup of contaminated sites across the country.

The legislation follows a recent investigation by Consumer Reports and the Guardian US news organization into the nation's drinking water, which found measurable levels of PFAS—short for per- and polyfluoroalkyl substances—in the vast majority of 120 water tap water samples taken around the U.S.

PFAS chemicals are used by manufacturers to make everything from nonstick cookware to stain-resistant fabric, and the compounds can seep into water from factories, landfills, and other sources. Because they don't easily break down in the environment, they're often called "forever chemicals." Upward of 200 million people are estimated to be exposed to water contaminated by PFAS, according to estimates by the Environmental Working Group, an advocacy organization.

Introduced by Rep. Debbie Dingell, D-Mich., the PFAS Action Act would take several steps to begin addressing that contamination.

"Let's be very clear, PFAS is an urgent public health and environmental threat," Dingell said in a statement. "And the number of contamination sites nationwide is growing at an alarming rate, including our military bases."

"Setting drinking water standards and designating PFAS as hazardous substances under the EPA's Superfund program will accelerate the clean-up process in communities and at military facilities all across this nation," she

added.

CRs' safety advocates have endorsed the legislation, which has garnered bipartisan support.

"This bill is long overdue because, despite mounting evidence that PFAS contamination is widespread and can pose serious health risks, the EPA has failed to act to protect public health," says Brian Ronholm, CR's director of food policy.

What the Bill Would Do

The bill mirrors the PFAS Action Act of 2019, which passed by a bipartisan vote in the House but failed to gain traction in the Senate.

In particular, the legislation would require the EPA to establish national drinking water standards within two years for PFOA, or perfluorooctanoic acid, and PFOS, or perfluorooctanesulfonic acid, two well-studied PFAS compounds, which encompass a group of several thousand in total.

Currently, the agency has a voluntary guidance level at 70 parts per trillion combined.

Many public health experts think those levels are far too high, with some recommending limits of just 1 ppt for total PFAS.

CR's chief scientific officer, James Dickerson, PhD, agrees that when it comes to PFAS, "the lower the better." CR's scientists say the maximum allowed amount should be 5 ppt for a single PFAS chemical and 10 ppt for two or more.

We have to treat the PFAS crisis like a five-alarm 'house on fire.'

The EPA's process to set limits for PFOA and PFOS is underway, but the traditional regulatory process would take several years to complete. The PFAS Action Act calls for standards to be set within two years.

Erik Olson, senior strategic director for the Natural Resources Defense Council, an environmental

Birnbaum Warns Of Narrow Exposure Focus In Draft PFAS Monitoring Bill

Diana DiGangi, Inside TSCA

<https://insideepa.com/tsc-news/birnbaum-warns-narrow-exposure-focus-draft-pfas-monitoring-bill>

Linda Birnbaum, the former director of the National Institute for Environmental Health Sciences (NIEHS), says lawmakers are neglecting key exposure pathways like those in workplace and from certain products, in their new push to expand medical monitoring and toxicity testing for per- and polyfluoroalkyl substances (PFAS).

Birnbaum, who led NIEHS and the National Toxicology Program (NTP) from 2009 to 2019, tells Inside TSCA in a recent interview that the current draft of the "PFAS Accountability Act," proposed last week by Sen. Kirsten Gillibrand (D-NY) and Rep. Madeleine Dean (D-PA), would create new confusion over who qualifies as being "exposed" to PFAS, and focuses so much on drinking water contamination that it leaves out other

possible vectors.

“What if they’re exposed during a removal process?” she said. “Or a remediation process? Any kind of occupational exposure should be considered. Are our fast-food workers more highly exposed [via PFAS in fast-food packaging]? I don’t think we have that data.” Birnbaum says.

The legislation allows for medical monitoring to be awarded to “an individual or class [that] has been significantly exposed to PFAS” when “as a result of that exposure, the individual or class has suffered an increased risk,” but Birnbaum says that language is vague and likely to end up disputed in litigation.

“Who defines ‘significant exposure’ or ‘significant risk’?” she said. “That phrasing ends up in courts.”

Rather, she says, “As far as increased risk of developing a disease associated with exposure -- I think it should just say suffers a risk. Because it's really hard to quantify risk.”

The legislation sets out potential examples of individuals who would qualify, including “any person that engaged in the portion of a manufacturing process that created the PFAS to which the individual was significantly exposed,” but Birnbaum, a leading researcher on PFAS, says this definition is not inclusive enough to catch most workplace exposures.

Moreover, the proposed language also requires that individuals exposed to a PFAS manufacturing process must have also been exposed by PFAS “released into 1 or more areas where the PFAS would have been exposed for a cumulative period of not less than 1 year” in order to qualify for medical monitoring.

Birnbaum says the legislation’s current wording improperly limits the analysis to air and water contamination rather than exposure through products like food packaging -- which has been a key target for states seeking to limit PFAS uses.

“For most people, if the levels in their water aren't very elevated, their exposure is going to come from what they eat,” Birnbaum argued. “So that's not even being addressed here.”

In general, she says, it is unclear how many PFAS exposures the bill could actually catch with its current definition of “significantly exposed.”

“PFAS in the air and water doesn't tell you anything about, say, people who eat a lot of fast food or seafood and get their exposure that way. Some of our environmental justice communities have much higher levels and it has to do with the food they eat, or that they’re fishing in polluted areas.”

Toxicity Testing

While the bill allows individuals to qualify as having “significant exposure” to PFAS if they can show “testing results that demonstrate that PFAS or metabolites of PFAS have been, or are currently detected in the body or blood serum of the individual,” Birnbaum says that will only create further complications.

“They keep talking about people exposed and medical monitoring,” she said, “but they never talk about providing testing so people can find out if they're exposed. And there is almost no place you can go to get blood levels done. And where you go will determine what they find - different levels of sensitivity, different chemicals, et cetera.”

“This goes back to [a] lack of education of our physicians,” Birnbaum says -- referring to the National Academy of Sciences’ panel tasked with helping...

Industry Wins More Time To Comment On OSHA Chemical Hazard Rule

David LaRoss, Inside TSCA

<https://insideepa.com/tsca-news/industry-wins-more-time-comment-osh-chemical-hazard-rule>

OSHA is extending the comment period on its proposed hazard communication standard (HCS) update, giving industry critics more time to build legal and policy cases against the rule after one attorney argued that it seemed designed to aid TSCA evaluations by forcing many chemical companies to conduct elaborate new hazard analyses.

Responding to requests from the American Chemistry Council (ACC) and other trade associations for more time to study the rule, OSHA in an April 12 Federal Register notice extended the deadline for written comments on the HCS proposal by 30 days to May 19.

The resulting comments, as well as the longer deadline, could be a major boon to groups that oppose the HCS update in its current form, as they could help convince new appointees to the Biden administration to reverse course and narrow the proposal, says Keller and Heckman attorney Lawrence P. Halprin.

In an interview with Inside TSCA, Halprin says that since OSHA lacked a Senate-confirmed administrator throughout the Trump administration, it is unclear whether any officials “at the political level” recognized the implications of the rule as the agency was crafting it.

“I really don’t think OSHA’s going to adopt a rule this broad,” he says.

The HCS proposal, which OSHA released Feb. 5, is framed as an update to the 2012 rule that generally requires labeling of hazardous or toxic substances.

But among other changes, the new proposal would require companies to address their chemicals’ complete lifecycles when crafting those labels, including any dangers they pose in combination or reaction with other materials.

Halprin says that mandate appears aimed at generating data EPA could use in Toxic Substances Control Act (TSCA) evaluations. He said that even though the rule does not directly mention TSCA, the hazard analysis it describes would require companies “to develop all information that EPA could conceivably require” in its assessments of chemical risks.

The analysis OSHA is proposing to require would not substitute for an EPA risk evaluation, he tells Inside TSCA, but “it’ll provide potentially a map of conditions of use they could include in an analysis. . . . It would be a head start.”

And he says that if OSHA does mandate that analysis, it could open the door to EPA broadening its own chemical evaluations under TSCA.

“It’s potentially an invitation for EPA to do the same thing. . . . EPA could theoretically expand its analysis not only to downstream exposures to that chemical but reactions involving that chemical.”

But he continues that he does not see the plan as a top priority of the Biden administration, but rather a holdover from the Trump era when OSHA lacked confirmed leadership -- meaning new officials could take a second look at it in response to negative comments.

And the arrival of recently confirmed Labor Secretary Marty Walsh, followed by President Joe Biden's April 9 announcement that he will nominate Doug Parker, head of California's worker-safety agency, to lead its federal counterpart, could make that even more likely.

'Something In Between'

Halprin said he does not expect OSHA to abandon the rulemaking entirely, especially given its stated goal of "harmonizing" the 2012 HCS with a more recent version of the international standard it was based on, the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Rather, he says, he expects the agency to search for a middle ground between the current proposal and the 2012 rule, which requires labeling chemicals based only on the hazards they pose in their current forms, with no analysis of subsequent reactions or combinations.

"Something in between seems likely. Where we draw the line is what this rulemaking is all about," he says.

Halprin tells Inside TSCA he expects to see a standard requiring manufacturers to conduct hazard analysis aimed at the current state of a chemical and any reactions or combinations "that the manufacturer...

EPA Nears Settlement In Litigation Over CDR Asbestos Reporting Mandate

Maria Hegstad, Inside TSCA

<https://insideepa.com/tsca-news/epa-nears-settlement-litigation-over-cdr-asbestos-reporting-mandate>

States, environmental groups and EPA will use an April 15 court date to ask a federal district judge for "guidance" on a potential settlement in the suit over the agency's Trump-era refusal to add asbestos to the TSCA Chemical Data Reporting (CDR) program, in the latest signal that a deal could be imminent.

A joint April 8 motion from all sides in the consolidated cases Asbestos Disease Awareness Organization (ADAO) et al. v. EPA and State of California et al. v. EPA says that "In the last few days, the parties have made significant progress toward settlement."

And they continue that instead of using a scheduled April 15 hearing to argue the merits of a pending EPA motion, they will "update the Court on the settlement framework we are discussing and obtain the Court's guidance on certain issues."

Judge Edward Chen, of the U.S. District Court for the Northern District of California, has already signed off on the parties' request, and formally converted the scheduled April 15 hearing from oral argument over EPA's request for Chen to reconsider his December merits ruling in the plaintiffs' favor, to a status hearing to discuss the pending settlement.

Such a settlement would likely involve action by EPA to formally add asbestos to the list of substances for which industry must report imports and uses under the CDR program -- as plaintiffs in both cases sought. The Trump administration rejected rulemaking petitions from states and environmental groups on the subject in 2019, prompting the suits.

Both sets of petitioners have voiced hopes that if EPA collects that data quickly, it would aid work on the upcoming “supplemental” Toxic Substances Control Act (TSCA) evaluation of legacy asbestos uses, which Trump-era officials announced shortly before leaving office.

And industry attorneys have said reopening the CDR rule to add asbestos could also be the spark for a broader rewrite of the reporting program, such as to add supplemental reporting requirements for chemicals that Biden EPA officials see as potential TSCA priorities.

Chen held on Dec. 22 that not only had the agency acted unlawfully when it denied states’ and ADAO’s TSCA section 21 petitions calling for asbestos to be added to the list of chemicals subject to CDR reporting, but that it had had a legal duty to grant the requests and add asbestos to the CDR list.

However, the Biden administration initially sought to mitigate that order, with a Feb. 2 motion where it argued that Chen lacked authority to do more than order it to revisit the petitions under a new legal standard. State and environmental leaders saw that as a surprise response to Chen’s decision, especially after the departure of Trump-era leaders at both EPA and the Department of Justice (DOJ).

Bob Sussman, ADAO’s counsel, told Inside TSCA following EPA’s original motion that he found it “disturbing that, with new leadership at EPA, DOJ is still carrying water for the Trump EPA rather than accepting the need to comply with the Court’s order. Why the Biden EPA would continue to resist reporting that is not only urgent for asbestos but needed for other risk evaluation chemicals is baffling.”

The parties appeared to enter settlement talks soon following that exchange, as a scheduled March 17 argument session was delayed by a month after all sides said negotiations had “made significant progress” toward resolving the dispute.

‘Manifest Error of Law’

In its motion, the agency claimed that neither TSCA nor the Administrative Procedure Act (APA) supported portions of Chen’s order that require the agency to amend its CDR requirements to cover asbestos, which it called “a manifest error of law.” Instead, EPA argued that the APA only allows courts to “set aside” agency actions found to be arbitrary or capricious and not to require regulators to reach a certain conclusion.

Plaintiffs quickly countered that Chen had already considered those same arguments and rejected them. “EPA’s motion asserts nothing the...

\$1.25 million in chlorpyrifos alternatives funding clears initial Oregon hurdle

Mateusz Perkowski, Capital Press

https://www.capitalpress.com/state/oregon/1-25-million-in-chlorpyrifos-alternatives-funding-clears-initial-oregon-hurdle/article_578a42d2-996e-11eb-b636-1f5370d6b34c.html

With chlorpyrifos insecticides coming under new restrictions in Oregon, the farm industry is pushing for increased research into alternative products and methods.

A bill that would direct \$1.25 million toward those studies recently cleared an important initial hurdle, with the House Agriculture and Natural Resources Committee unanimously recommending approval.

Under House Bill 3249, the state's Department of Agriculture would receive \$800,000 to establish a grant program for chlorpyrifos alternatives research, while Oregon State University would get \$400,000 to conduct field trials of replacement pesticides.

The proposal will now be considered by the Joint Committee on Ways and Means, which makes budget decisions.

Most uses of chlorpyrifos will be phased out over three years under an ODA rule enacted last year in response to concerns over the chemical's neurological impacts on humans. However, growers of numerous specialty crops still rely on the chemical for pest control.

"Without effective alternatives, farm and ranch families face crop losses and could even lose access to domestic and international markets," said Rep. Shelly Boshart-Davis, R-Albany, the bill's chief sponsor.

Research, field trials and federal registration of alternative pesticides are expected to take up to seven years per crop, so the studies need to begin as soon as possible, she said.

Grass and clover seed farmers don't have many registered pesticides at their disposal and could experience yield losses of 30-40% without effective alternatives to chlorpyrifos, said Roger Beyer, director of the Oregon Seed Council.

Other crop sectors are also likely to experience serious impacts from restrictions on the insecticide, said Katie Murray, executive director of the Oregonians for Food and Shelter agribusiness group.

Mint producers are estimated to spend about \$1.5 million to \$3 million in replacement costs, which doesn't even account for reduced crop yields, she said.

In strawberry fields infested with symphylans — soil-dwelling pests — the yield losses are expected to be total due to a lack of alternatives, resulting in losses of more than \$4 million to farmers, Murray said.

"We're leaving our growers at a disadvantage when these restrictions are inconsistent with federal regulation," she said.

The U.S. Environmental Protection Agency had planned to stop the use of chlorpyrifos under the Obama administration but then reversed course when the Trump administration came into office in 2017.

The 9th U.S. Circuit Court of Appeals ordered the Environmental Protection Agency to ban the insecticide in 2018 but reconsidered that decision the following year. Last year, the agency decided to continue allowing chlorpyrifos use on an interim basis.

Walmart Announces Industry-Leading Policy to Protect Pollinators From Pesticides

Friends of the Earth Staff, Perishable News

<https://www.perishablenews.com/retailfoodservice/walmart-announces-industry-leading-policy-to-protect-pollinators-from-pesticides/>

Bentonville, AR — Walmart (NYSE: WMT) announced a landmark pollinator health policy today, the most far reaching to date of any U.S. food retailer. The new policy seeks to help protect bees and other pollinators that are essential to one in three bites of food production. As the largest U.S. food retailer, Walmart's commitment will help transform growing practices on thousands of farms globally that supply fresh fruits and vegetables to the retail giant's U.S. consumers.

The company jumped from an "F" to first place on Friends of the Earth's Bee-Friendly Retailer Scorecard which ranks top U.S. grocery retailers on protecting pollinators from toxic pesticides. Walmart's commitment follows a multi-year effort urging U.S. food retailers to take action to protect pollinators led by Friends of the Earth, along with over 100 environmental, consumer, farmer, and farmworker organizations.

"Scientists across the world are sounding the alarm that we are in the midst of an 'insect apocalypse,' driven in large part by toxic pesticides," said Kendra Klein, PhD, senior staff scientist at Friends of the Earth. "Walmart's policy is a major step in the right direction, but with 40% of insect pollinators facing extinction, all retailers must accelerate a race to the top before pollinators lose their race against time."

The new policy requires all global fresh produce and floral suppliers to Walmart U.S. to adopt Integrated Pest Management (IPM) practices, as verified by a third-party certifier, by 2025. Suppliers may work with any of a list of third-party certifications that were benchmarked as having meaningful IPM criteria by the IPM Institute of North America. This is the first U.S. food retailer to adopt a timebound commitment to expand ecological farming methods in its supply chain.

In an industry vulnerable to climate change and biodiversity loss, IPM guides farmers to use ecological methods that support the overall sustainability of their land. IPM can reduce use of pesticides by requiring farmers to use non-chemical approaches to manage pests first, such as rotating crops, planting resistant varieties and fostering beneficial insects.

Walmart's policy recognizes that organic agriculture is protective of pollinator health. Organic agriculture is based on robust IPM practices, and the organic certification prohibits the use of over 900 pesticides, including those of highest concern for the health of pollinators and people, such as chlorpyrifos and neonicotinoids. Research shows that organic farming can help reverse pollinator declines.

Walmart's policy encourages non-organic produce suppliers to phase out the use of chlorpyrifos and neonicotinoids and to avoid replacing them with other products with a level I bee precaution rating. While other major U.S. food retailers have established pollinator health policies encouraging reduction of these pesticides, only Walmart has committed to track their use in its supply chain with the goal of increasing transparency and assessing annual progress.

Along with pesticides, Walmart's policy aims to address another driver of pollinator decline — habitat loss. It includes goals to protect, restore, and establish pollinator habitat in pollinator migration corridors and on farms in its produce supply chain.

Pollinators are essential for a sustainable food supply. Without pollinators, grocery stores would run short of a

wide assortment of fruits and vegetables, nuts, beans, and even chocolate and coffee. And because bees pollinate alfalfa and other crops eaten by cows, even the dairy and meat shelves could look bare without them.

Could EPA-approved 'fog juice' bring Broadway back?

Ariel Wittenberg and E.A. Crunden, E&E News

https://www.eenews.net/greenwire/2021/04/13/stories/1063729843?utm_campaign=edition&utm_medium=email&utm_source=eenews%3Agreenwire

A theatrical special effects company is an emerging player in the COVID-19 disinfecting game, saying chemicals already used to create fog and haze on stage can be pumped through heating, ventilation and air conditioning systems to deactivate viruses in a wide variety of settings, including performance venues and public transit.

Grignard Pure was given emergency approval by EPA for use in Georgia and Tennessee earlier this year, with deployment imminent in public transit, dental and meatpacking settings, according to the company. Now, Grignard Pure is working with major Broadway players — including Disney and legendary composer Andrew Lloyd Webber — in the hope that the product could help reopen live entertainment venues safely, as additional states await EPA approval to use the disinfectant.

But occupational health experts who have been sounding the alarm about negative effects from theatrical fog for decades question whether pumping more triethylene glycol (TEG) into theaters and other indoor settings is safe. And British authorities have rejected the technology, noting that it could cause respiratory irritation and questioning whether it would even be effective against the coronavirus.

Brian Regan, chief strategy officer at Grignard Pure, maintains that the product is completely safe.

"The EPA was rigorous and assiduous in its testing," he said.

Grignard already owns about 80% of the theatrical special effects market share in the United States. The company's products are used for stage shows everywhere from musicals on Broadway to circus performances in Las Vegas.

The products have been deployed in a range of Broadway productions to provide ambience to a villain's lair in "The Phantom of the Opera," create smoky battles for freedom in "Les Misérables" and recreate a concert atmosphere in "School of Rock," with haze effects helping make beams of light more visible.

Regan said the company actually began looking into TEG's antimicrobial effects during the 2009 H1N1 outbreak. The idea was "shelved" when the outbreak was quickly mitigated, but Grignard Pure was ready when the coronavirus pandemic hit.

In January, Grignard Pure became the first EPA-approved antiviral treatment used in air — rather than on surfaces. Internal tests reviewed by EPA show the product is 98% effective at deactivating viruses when it has reached a 0.5-milligram-per-cubic-meter concentration in a space for 30 seconds.

Regan said the company is working on pilot programs with meat packing facilities and is "getting ready to put this in dental offices in Tennessee in the next few weeks," with plans "to do an implementation" involving rapid transit in Chattanooga, Tenn., soon.

But Grignard Pure has also specifically targeted the theater industry as a natural fit for the disinfectant, which would be pumped through HVAC systems in addition to whatever effects are needed on stage.

It already has buy-in from major Broadway names, including Disney, which allowed the company to conduct a "proof of concept" test at its 17,000-seat New Amsterdam Theatre, where the musical adaptation of "Aladdin" was performed prior to the pandemic. Regan said Grignard Pure also has interest from other big-name venues, like the Lincoln Center and the Shubert Theatre.

"We continue to follow the progress of Grignard Pure with enthusiasm in the hope it might become part of the standard safety protocols for live entertainment venues, including Broadway theatres," said Thomas Schumacher, Disney Theatrical Productions' president and producer, in a statement. "I hope that in some way we'll have played a small part on the product's road to mainstream application."

Industry support could be critical for getting Grignard Pure on Broadway.

States — like Nevada, Pennsylvania and Texas — that have agreed there is a pressing need for an airborne disinfectant have already applied for EPA approval. But a Massachusetts pesticides subcommittee board meeting this week rejected...

Updated guidance for COVID disinfecting

Mark Gruba, Rochester First WROC

<https://www.rochesterfirst.com/coronavirus-facts-first/updated-guidance-for-covid-disinfecting/>

ROCHESTER, N.Y. (WROC) — Does it need to be cleaned or disinfected?

Dr. Jeff Harp from Highland Family Medicine discussed updated CDC guidelines for cleaning and disinfecting surfaces when COVID-19 is a concern Tuesday during News 8 at Sunrise.

What is the difference between cleaning and disinfecting?

Cleaning reduces germs on surfaces by removing contaminants and may also weaken or damage some of the virus particles, which decreases the risk of infection from surfaces. Cleaning is done with products containing soap or detergent. Disinfecting kills any remaining germs on surfaces, which further reduces any risk of spreading infection. Only certain products are able to disinfect.

How do I know which products are able to disinfect?

Use a disinfectant product from the EPA List N that is effective against COVID-19. Go to the EPA list N online tool and enter the EPA Registration number on the product. The site will tell you if that product is an effective disinfectant. The site is at <https://cfpub.epa.gov/giwiz/disinfectants/index.cfm>.

When is cleaning alone enough?

The risk of infection from touching a surface or object is now known to be lower. When no people with confirmed or suspected COVID-19 are known to have been in a space, cleaning once a day is usually enough to sufficiently remove viruses that may be on surfaces and help maintain a healthy facility.

You may want to either clean more frequently or choose to disinfect (in addition to cleaning) in shared spaces if certain conditions apply that can increase the risk of infection from touching surfaces:

- High transmission of COVID-19 in your community,
- Low number of people wearing masks,
- Infrequent hand hygiene, including spaces shared by small children, or
- The space is occupied by certain populations, such as people at increased risk for severe illness from COVID-19

When should we be disinfecting routinely?

If there has been a sick person or someone who tested positive for COVID-19 in your facility or home within the last 24 hours, you should clean AND disinfect the space at least daily, more frequently for high use/high risk areas.

What precautions should be taken while cleaning or disinfecting?

Assure adequate ventilation.

Wear gloves for all tasks in the cleaning process.

Wash your hands with soap and water for 20 seconds after cleaning, immediately after removing gloves.

Special considerations should be made for people with asthma. Some cleaning and disinfection products can trigger asthma.

Where can we look for more information?

The CDC website <https://www.cdc.gov/coronavirus/2019-ncov/community/disinfecting-building-facility.html>

EPA Announces Request for Public Input on the Current Pesticide Exemption Provision Process

Lisa Campbell and Lisa Burchi, Bergeson & Campbell Blogs

<http://pesticideblog.lawbc.com/entry/epa-announces-request-for-public-input-on-the-current-pesticide-exempt>

On April 8, 2021, the U.S. Environmental Protection Agency (EPA) issued an Advance Notice of Proposed Rulemaking (ANPR) to solicit information on the current pesticide exemption provision process. 86 Fed. Reg. 18232. EPA announced its intent to issue this ANPR on January 19, 2021, as discussed here. The issuance of the ANPR was paused following the Biden Administration's Executive Orders requiring agencies to review their rules and policies to ensure consistency with the current Administration's environmental policies.

EPA states that it is soliciting comments and suggestions to determine whether regulatory and policy changes are needed to improve the exemption provisions for pesticides that may be considered minimum risk under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). EPA states that changes to the current process could make the implementation and evaluation of the exemption provisions more efficient.

Comments on the ANPR are due before July 7, 2021. Discussed below are the issues raised in the ANPR for stakeholder consideration and changes made since the ANPR was first announced in January 2021.

The ANPR is generally the same as what was first announced in January 2021, in which EPA states it is seeking public input for two main categories:

Whether EPA should be streamlining the petition process and revisions to how EPA evaluates the potential minimum risk active and inert substances, factors used in classes of exemptions, state implementation of the minimum risk program, and the need for any future exemptions or modifications to current exemptions; and Whether EPA should consider amending existing exemptions or adding any new classes of pesticidal substances for exemption.

One important difference is that the April 2021 ANPR now includes a discussion of environmental justice. EPA states that Executive Order 12989 directed agencies, "to the greatest extent practicable and permitted by law, to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of its actions on minority and low-income populations." EPA states in the ANPR that it has not identified any such disproportionate effects, since this ANPR is soliciting comments and is not proposing any specific actions or regulatory changes.

Specific questions posed that relate to environmental justice include the following:

Given the identified minimum risk characteristics of these products and anticipated low impacts on communities, are current approaches effective for seeking input from the public and stakeholders, including state, local, tribal, and territorial officials, scientists, labor unions, environmental advocates, and environmental justice organizations? Are there particular approaches that are more or less effective?

Are there other policies that EPA should consider in determining whether a substance should be exempt from FIFRA regulation via the Minimum Risk Pesticide Listing Program? For example, should EPA consider additional environmental justice and pollution prevention policies?

When considering products that are a "minimum risk" to public health and the environment, should the product also be considered to be of low impact to all communities, including low-income and minority populations? Please explain why or why not.

When considering whether a category or class of products are a "minimum risk" to public health and the environment, should the category or class of products also be considered as being of low impact to all communities, including low-income and minority populations? Are there other factors that EPA should consider?

Other questions posed that have not changed substantively since the 2021 ANPR include the following:

Do you have any suggestions for improving the processes for initiating a review of a substance or for implementing a decision that a substance may be used or may no longer be used in a minimum risk pesticide process? Please explain how...

EPA Issues SSURO against ViaClean Technologies for Making Inaccurate Health Claims about Its Pesticide Product

Lisa Campbell and Lisa Burchi, Bergeson & Campbell Blogs

<http://pesticideblog.lawbc.com/entry/epa-issues-ssuro-against-viaclean-technologies-for-making-inaccurate-health>

On March 31, 2021, the U.S. Environmental Protection Agency (EPA) issued a Stop Sale, Use or Removal Order (SSURO) to ViaClean Technologies (ViaClean), operating in Philadelphia, regarding the sales, distribution, and marketing of the pesticide BioProtect RTU with claims that it is effective against surfaces from public health-related pathogens such as SARS-CoV-2, the virus that causes COVID-19.

Under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), products that claim to kill or repel bacteria or germs, including disinfectants, are considered pesticides and must be registered with EPA. Public health claims can only be made regarding products that have been properly tested and are registered with EPA.

In this case, BioProtect RTU is a registered pesticide, with label claims approved by EPA, in part, to use the product to inhibit the growth of odor causing bacteria that cause staining and discoloration, and algae. According to EPA, ViaClean provided two BioProtect RTU fact sheets containing public health claims to at least one customer, including the statement that the pesticide can be used to kill “germs.” EPA also alleged that some online distributors, cleaning services, and end-recipients of BioProtect RTU were also making claims that this product is effective against pathogens, germs, disease-causing bacteria, viruses, and/or SARS-CoV-2 for up to 90 days.

EPA’s issuance of the SSURO is thus based on EPA’s belief that ViaClean was selling, distributing, and marketing BioProtect RTU with public health claims that have not been substantiated or approved through the pesticide registration process. EPA states that it is concerned that customers may have used this product as protection from viruses -- SARS-CoV-2 -- in lieu of other EPA-approved disinfection methods.

This case is another example of EPA’s enforcement priorities and vigilance over the past year to identify products making claims to act against the coronavirus and taking action to prevent further sales when such products are not approved by EPA to make such claims.

“No Pollinator is Safe” — New Evidence of Neonicotinoids Harming Wild, Ground Nesting Bees

N/A, Beyond Pesticides Blog

<https://beyondpesticides.org/dailynewsblog/2021/04/no-pollinator-is-safe-new-evidence-of-neonicotinoids-harming-wild-ground-nesting-bees/>

A new study is making it increasingly clear that current laws are not protecting wild, ground nesting bees from the hazards of neonicotinoid insecticides. According to research conducted under a grant from the U.S. Department of Agriculture's Sustainable Agriculture Research and Education (SARE) projects, Blue Orchard Mason Bees (*Osmia* spp) are at particular risk from pesticide-contaminated soil they use to create their nest. Authors of the study note that with honey bees already in decline, pollination services provided wild managed bees like Mason bees are growing in importance. "Wild bees such as *Osmia* are becoming increasingly popular as managed pollinators in many systems, as there is growing concern that honeybees may not be able to continue to meet the increasing demands of agricultural pollination if these trends continue," the study reads.

The study looked at three overarching threats to mason bee populations, aiming to identify risks from pesticide contaminated soil used as a nest, effects on larvae exposed to contaminated soil, and whether female mason bees could determine the difference between contaminated and uncontaminated soil. "Imidacloprid is a neonicotinoid, which is a group of pesticides that are highly toxic to bees," said Christine Fortuin, PhD, graduate student and lead author of the study. "It has several common uses but my research was focused on the soil-drench application method. This is when it is applied directly to the soil and soaked up through the roots of the tree to prevent beetles and other pests."

To investigate the risks of neonicotinoid-contaminated soil to mason bees, 120 female bees were separated out into groups and exposed to varying levels of imidacloprid (nil exposure, 50 parts per billion [ppb], 390 ppb, and 780 ppb), representing an unexposed control group, as well as low, medium, and high levels in the environment. This experiment was repeated with varying levels of moisture (20% and 40%) in the soil material used to create the mason bee's nests. A separate experiment exposed the four-day old larvae of mason bees to similar concentrations of neonicotinoids. A final experiment was conducted providing female mason bees the choice whether to use treated or untreated soil to use in their nests.

The study found no trend to the mason bee's ability to distinguish between contaminated and uncontaminated soil. Embryos appeared to be particularly resilient to the effects of pesticide exposure. However, female mason bees were harmed by soil contact exposure, with effects on fitness noted at each exposure level. At the highest exposure rate, researchers observed a 66% decline in nesting activity as females produced 40% fewer offspring overall. Nesting activity was similarly reduced by 42% in the medium exposed group. For the lowest exposures at 50 ppb (the equivalent of adding 50 drops of pesticide in a 10,000 gallon swimming pool), the sex ratio for offspring was skewed toward male bees. This group had 50% fewer female bees than the unexposed control group.

Soil moisture has important and surprising implications for toxicity. Soil at 20% moisture shows few effects on the pollinators, but at 40% researchers witnessed over 50% of female Blue Orchard Mason bees dying at every level of exposure.

While researchers note that the study provides evidence on routes to avert risk, such as mulching around areas treated with a toxic pesticide to discourage mason bee access, the evidence is increasingly pointing to the fact that no level of use will be safe for pollinators. Although there is relatively little data specifically focused on the harm neonicotinoids inflict on wild-ground nesting bees, this study is already reinforcing existing results. A study published in late 2020 finds that the additive stress of pesticide exposure and food scarcity leads to significant declines in wild mason bees. Scientists exposed female mason bees to the neonicotinoid imidacloprid and found they produce 42%...

Does Glyphosate Cause Cancer?

Glyphosate is a common herbicide used to kill certain weeds and grasses primarily in agriculture but also in lawn and garden care. It is found in products by many popular brands like RoundUp. There have been concerns that overexposure to the chemical may lead to an increased risk of developing cancer, but research on this has been mixed, with some showing the association between the two and others revealing none. Exposure to glyphosate has also been linked to other health risks. Studies have found exposure to the chemical may lead to the development of acute or chronic inflammatory syndromes.¹

What Is Glyphosate?

Glyphosate is classified as a phosphonic acid. It is created when methylphosphonic acid and glycine are coupled together.² It comes in a powder and is odorless. The compound is non-selective, which means that it will kill most plants and cannot target specific ones.

It was first developed in 1970. Herbicides made with this chemical usually contains other compounds as well. These products are called glyphosate-based herbicides (GBH). Glyphosate works by blocking an enzyme essential for plant growth.

GBH is the most commonly used herbicide class worldwide, accounting for more than half of agricultural herbicide use in the United States alone.³

Uses

Glyphosate is used in agriculture to limit competition for sunlight, water, and soil nutrients that can happen when weeds or other plants grow in crop areas. It works by seeping into the plant through its leaves, where it then infects every cell in the plant from the leaves to the roots. Plants treat glyphosate as an amino acid, and when the chemical gets into the amino acid synthesis cycle, it hinders enzyme production pathways that are absent in animals but critical to plant growth.

Sources of Glyphosate

Trace amounts of pesticides or pesticide chemical residues may remain in or on some crops after they're harvested. In 2016 and 2017, the U.S. Food and Drug Administration (FDA) batch tested a variety of foods to check for levels of glyphosate. They looked at 879 corn, soybean, milk, and egg samples, and found that chemical residue from GBH could be found on 57% of the corn and soy samples, but none of the milk and egg samples were contaminated. The detected amounts were below the tolerance levels set by the U.S. Environmental Protection Agency (EPA), however.⁴

There have been claims that glyphosate can be found in foods such as cereals and other wheat products, but they lack evidence. Some studies found that the similarities between glyphosate exposure and the effects on the human body are too great to ignore and that the inadequate monitoring of levels of the chemical in food could be partially to blame for a lack of true evidence.⁵

Researchers Theorize That Roundup Causes Celiac and Gluten Sensitivity Cancer Risk: What the Research Says

There is no clear answer from research and health authorities on whether glyphosate leads to cancer. A meta-analysis found that there was a direct link between a exposure to GBH and an increased risk for developing non-Hodgkin's lymphoma, and that association is the strongest among those exposed to high levels of GBH.⁶ However, others argued that the evidence is inconsistent and consists of only a few studies and that more research is needed.⁷

A report released by the World Health Organization states that the chemical is “probably carcinogenic to humans”⁸ based on findings from the International Agency for Research on Cancer. However, the EPA concluded in its report that glyphosate is not likely to be carcinogenic in humans.⁴

What Is a Carcinogen?

A carcinogen is classified as any substance or exposure that drives the development of cancer. There are three main categories of carcinogens: chemical, physical, and cancer-causing viruses. Some common carcinogens include asbestos, nickel, and cadmium.

With conflicting evidence...

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And while you're reading.... Remember to shoot your coworkers a shooting star!

Message

From: Williamson, Tracy [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=1B1209CC553B4CBE9A59F3E47DC0A312-TRWILLIA]
Sent: 6/15/2021 2:26:09 AM
To: Edelstein, Rebecca [Edelstein.Rebecca@epa.gov]
CC: Passe, Loraine [Passe.Loraine@epa.gov]; Alwood, Jim [Alwood.Jim@epa.gov]
Subject: RE: PFAS definition

I'm not sure that it is really public yet! Tala says it is ... in two sources ... but I'm not sure. The 8(a) rule hasn't been published yet and I don't know what the second source is. Probably best to wait.

From: Edelstein, Rebecca <Edelstein.Rebecca@epa.gov>
Sent: Thursday, June 10, 2021 10:23 AM
To: Williamson, Tracy <Williamson.Tracy@epa.gov>
Cc: Passe, Loraine <Passe.Loraine@epa.gov>; Alwood, Jim <Alwood.Jim@epa.gov>
Subject: PFAS definition

Hi Tracy,

We've had a couple of program managers asking if the current working definition of PFAS is public and if they can provide it to submitters. Do you know if it's already public? It sounds like it'll be public very soon in the proposed 8(a) rule, and we're also planning on including it in materials that we'll be putting on the web for the PFAS LVE Stewardship Program. Do you have any concerns with PMs sharing the working definition with submitters now? Or should they wait until the 8(a) proposed rule is published or the stewardship program goes live?

Rebecca Edelstein, Ph.D.
Chief, Risk Management Branch 2
New Chemicals Division
Office of Pollution Prevention and Toxics
US Environmental Protection Agency
WJC EPA East Building, room 4419A
1200 Pennsylvania Avenue, NW (7405M)
Washington, DC 20460

Phone: 202-564-1667
FAX: 202-564-9490

Message

From: Krasnic, Toni [krasnic.toni@epa.gov]
Sent: 6/26/2018 7:11:07 PM
To: Williamson, Tracy [Williamson.Tracy@epa.gov]; Vendinello, Lynn [Vendinello.Lynn@epa.gov]
CC: Lehman, Timothy [Lehman.Timothy@epa.gov]
Subject: Long-chain PFAS

Hi Tracy,

Below is the definition of long-chain PFAS we used in SNURs ([see § 721.10536](#)). This definition was developed by CCD and CESSD (lead was Greg Fritz). OECD, FluoroCouncil, Canada, and other countries are using long-chain definitions consistent with this definition.

(b) Chemical substances and significant new uses subject to reporting. (1) The chemical substances identified below, where $5 < n < 21$ or $6 < m < 21$, are subject to reporting under this section for the significant new uses described in paragraph (b)(4)(i) and (b)(4)(iv) of this section.

(i) $\text{CF}_3(\text{CF}_2)_n\text{-COO M}$ where $\text{M} = \text{H}^+$ or any other group where a formal dissociation can be made.

(ii) $\text{CF}_3(\text{CF}_2)_n\text{-CH=CH}_2$.

(iii) $\text{CF}_3(\text{CF}_2)_n\text{-C(=O)-X}$, where X is any chemical moiety.

(iv) $\text{CF}_3(\text{CF}_2)_m\text{-CH}_2\text{-X}$, where X is any chemical moiety.

(v) $\text{CF}_3(\text{CF}_2)_m\text{-Y-X}$, where Y = non-S, non-N heteroatom and where X is any chemical moiety.

All PFAS with $n \leq 5$ and $m \leq 6$ are considered short-chain PFAS.

Thanks,

Toni Krasnic
Existing Chemicals Branch
EPA/OCSP/OPPT/CCD/ECB
WJC East, 4134D | (202) 564-0984

Appointment

From: Nesci, Kimberly [Nesci.Kimberly@epa.gov]
Sent: 2/16/2021 4:27:40 PM
To: Nesci, Kimberly [Nesci.Kimberly@epa.gov]; Goodis, Michael [Goodis.Michael@epa.gov]; Nguyen, Thuy [Nguyen.Thuy@epa.gov]; Qian, Yaorong [qian.yaorong@epa.gov]; Teter, Royan [Teter.Royan@epa.gov]; Saenz, Diana [Saenz.Diana@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]; Anderson, Neil [Anderson.Neil@epa.gov]; Lara, Rhina [Lara.Rhina@epa.gov]; Ozmen, Shamus [Ozmen.Shamus@epa.gov]; Dennis, Allison [Dennis.Allison@epa.gov]; Widawsky, David [Widawsky.David@epa.gov]; Helfgott, Daniel [Helfgott.Daniel@epa.gov]; Garcia, Beth [garcia.beth@epa.gov]
CC: Messina, Edward [Messina.Edward@epa.gov]; Echeverria, Marietta [Echeverria.Marietta@epa.gov]; Henry, Tala [Henry.Tala@epa.gov]; Keigwin, Richard [Keigwin.Richard@epa.gov]; Williamson, Tracy [Williamson.Tracy@epa.gov]; Picone, Kaitlin [Picone.Kaitlin@epa.gov]; Charlton, Tom [Charlton.Tom@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Garvey, Mark [Garvey.Mark@epa.gov]; Miles, James [miles.james@epa.gov]; Le, Madison [Le.Madison@epa.gov]; Odusote, Gloria [odusote.gloria@epa.gov]; O'Neill, Sandra [ONeill.Sandra@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]; Dunton, Cheryl [Dunton.Cheryl@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]; Wolf, Joel [Wolf.Joel@epa.gov]; Kaczmarek, Chris [Kaczmarek.Chris@epa.gov]; Cyran, Carissa [Cyran.Carissa@epa.gov]; Leifer, Kerry [Leifer.Kerry@epa.gov]; Bellot, Michael [Bellot.Michael@epa.gov]; Davies, Clive [Davies.Clive@epa.gov]; Huskey, Angela [Huskey.Angela@epa.gov]; Dawson, Jeffrey [Dawson.Jeff@epa.gov]; Aunkst, Dana [aunkst.dana@epa.gov]; Stroyeck, Lauren [Stroyeck.Lauren@epa.gov]; Williams, Bridget [Williams.Bridget@epa.gov]; Larkin, Jenna [larkin.jenna@epa.gov]; Winters, Melissa [Winters.Melissa@epa.gov]; Forman, Debra [forman.debra@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Lloyd, Tyler [Lloyd.Tyler@epa.gov]; Wen, Chen [Wen.Chen@epa.gov]; Ellenbogen, Victoria [Ellenbogen.Victoria@epa.gov]; Franklyn, Valarie [Franklyn.Valarie@epa.gov]; Driscoll, Stacie [Driscoll.Stacie@epa.gov]
Subject: OCSPP/OECA PFAS Check-In
Attachments: FW: OCSPP/OECA PFAS Check-In; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Untitled Attachment; Canceled: OCSPP/OECA PFAS Check-In; Untitled Attachment; Canceled: OCSPP/OECA PFAS Check-In; Untitled Attachment
Location: Microsoft Teams Meeting
Start: 2/9/2021 9:00:00 PM
End: 2/9/2021 10:00:00 PM
Show Time As: Busy
Recurrence: Weekly
Occurs every Tuesday from 4:00 PM to 5:00 PM effective 2/9/2021 until 8/3/2021.
Required Attendees: Nesci, Kimberly; Goodis, Michael; Nguyen, Thuy; Qian, Yaorong; Teter, Royan; Saenz, Diana; Aubee, Catherine; Anderson, Neil; Lara, Rhina; Ozmen, Shamus; Dennis, Allison; Widawsky, David; Helfgott, Daniel; Garcia, Beth
Optional Attendees: Messina, Edward; Echeverria, Marietta; Henry, Tala; Keigwin, Richard; Tracy Williamson (Williamson.Tracy@epa.gov); Picone, Kaitlin; Charlton, Tom; Rodman, Sonja; Garvey, Mark; Miles, James; Madison Le (Le.Madison@epa.gov); Odusote, Gloria; O'Neill, Sandra; Butler, Tristan; Schmit, Ryan; Dunton, Cheryl; Koch, Erin; Wolf, Joel; Kaczmarek, Chris; Cyran, Carissa; Leifer, Kerry; Bellot, Michael; Davies, Clive (Davies.Clive@epa.gov); Huskey, Angela; Dawson, Jeffrey; Aunkst, Dana; Driscoll, Stacie; Stroyeck, Lauren; Bridget Williams; Larkin, Jenna; Winters, Melissa; Forman, Debra; Schwarz, Stephanie; Lloyd, Tyler; Wen, Chen; Ellenbogen, Victoria; Franklyn, Valarie
Standing Agenda/Updates

- OPP/OCSPP
 - o BEAD & lab testing
 - o RD
 - o OPP
- OPS/OCSPP
- OPPT/OCSPP

- OCSPP IO
- OECA
- OGC
- Regions
- Anyone else?

Please review and address comments in the new link. It includes both the status of the OPP lab testing and the status of other collaborations/discussions.

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Appointment

To: Nesci, Kimberly [Nesci.Kimberly@epa.gov]; Goodis, Michael [Goodis.Michael@epa.gov]; Nguyen, Thuy [Nguyen.Thuy@epa.gov]; Qian, Yaorong [qian.yaorong@epa.gov]; Teter, Royan [Teter.Royan@epa.gov]; Saenz, Diana [Saenz.Diana@epa.gov]; Aubee, Catherine [Aubee.Catherine@epa.gov]; Anderson, Neil [Anderson.Neil@epa.gov]; Lara, Rhina [Lara.Rhina@epa.gov]; Ozmen, Shamus [Ozmen.Shamus@epa.gov]; Dennis, Allison [Dennis.Allison@epa.gov]; Widawsky, David [Widawsky.David@epa.gov]; Helfgott, Daniel [Helfgott.Daniel@epa.gov]

CC: Williamson, Tracy [Williamson.Tracy@epa.gov]; Messina, Edward [Messina.Edward@epa.gov]; Echeverria, Marietta [Echeverria.Marietta@epa.gov]; Henry, Tala [Henry.Tala@epa.gov]; Keigwin, Richard [Keigwin.Richard@epa.gov]; Picone, Kaitlin [Picone.Kaitlin@epa.gov]; Charlton, Tom [Charlton.Tom@epa.gov]; Rodman, Sonja [Rodman.Sonja@epa.gov]; Garvey, Mark [Garvey.Mark@epa.gov]; Miles, James [miles.james@epa.gov]; Le, Madison [Le.Madison@epa.gov]; Odusote, Gloria [odusote.gloria@epa.gov]; O'Neill, Sandra [ONeill.Sandra@epa.gov]; Butler, Tristan [Butler.Tristan@epa.gov]; Schmit, Ryan [schmit.ryan@epa.gov]; Dunton, Cheryl [Dunton.Cheryl@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]; Wolf, Joel [Wolf.Joel@epa.gov]; Kaczmarek, Chris [Kaczmarek.Chris@epa.gov]; Cyran, Carissa [Cyran.Carissa@epa.gov]; Leifer, Kerry [Leifer.Kerry@epa.gov]; Bellot, Michael [Bellot.Michael@epa.gov]; Davies, Clive [Davies.Clive@epa.gov]; Dawson, Jeffrey [Dawson.Jeff@epa.gov]; Huskey, Angela [Huskey.Angela@epa.gov]; Tracy Williamson (Williamson.Tracy@epa.gov) [Williamson.Tracy@epa.gov]

Start: 3/30/2021 8:00:00 PM

End: 3/30/2021 9:00:00 PM

Recurrence: (none)

Required Attendees: Goodis, Michael; Nguyen, Thuy; Qian, Yaorong; Teter, Royan; Saenz, Diana; Aubee, Catherine; Anderson, Neil; Lara, Rhina; Ozmen, Shamus; Dennis, Allison; Widawsky, David; Helfgott, Daniel

Optional Attendees: Tracy Williamson (Williamson.Tracy@epa.gov); Messina, Edward; Echeverria, Marietta; Henry, Tala; Keigwin, Richard; Picone, Kaitlin; Charlton, Tom; Rodman, Sonja; Garvey, Mark; Miles, James; Madison Le (Le.Madison@epa.gov); Odusote, Gloria; O'Neill, Sandra; Butler, Tristan; Schmit, Ryan; Dunton, Cheryl; Koch, Erin; Wolf, Joel; Kaczmarek, Chris; Cyran, Carissa; Leifer, Kerry; Bellot, Michael; Davies, Clive (Davies.Clive@epa.gov)

For 3/30/2021 meeting:

- Updates on lab testing (OPP)
 - Own testing status, including anvil data and other data
 - Our thoughts on PEER data
 - Plan – schedule call with Kyla
- Updates from OPP (RD), if any
- Updates from OPPT, if any
- Updates on OECA
 - TSCA Subpoena
 - Call between the chemists
- Communication Efforts (OPS)
 - Bloomberg Interview – follow-up on definition of PFAS (kn)
- Any other updates/requests

Please review and address comments in the new link. It includes both the status of the OPP lab testing and the status of other collaborations/discussions.

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